

Owner: Holmris B8
No.: MD-24100-EN
Issued: 12-11-2024
Valid to: 12-11-2029

3rd PARTY VERIFIED

EPD

VERIFIED ENVIRONMENTAL PRODUCT DECLARATION | ISO 14025 & EN 15804



Owner of declaration
 Holmrís B8 A/S
 Odinsvej 5, 8850 Bjerringbro
 21320080



Issued:
 12-11-2024

Valid to:
 12-11-2029

Programme
 EPD Danmark
www.epddanmark.dk



- Industry EPD
- Product EPD

Declared product(s)
 Tres 141x110x74, Tres 141x110x90, Tres 212x110x74,
 Tres 212x110x90, Tres 282x110x74, Tres 282x110x90,
 Tres Ø150x74, Tres Ø150x90

Number of declared datasets/product variations: 8

Production site
 Odinsvej 5, 8850 Bjerringbro, Denmark

- Use of Guarantees of Origin**
- No certificates used
 - Electricity covered by GoO for one supplier and residual mix for everything else
 - Biogas covered by GoO

Functional unit
 Production of one table solution provided and maintained for a period of 15 years.

Year of production site data (A3)
 2024

EPD version
 1.0

Basis of calculation

This EPD is developed and verified in accordance with the European standard EN 15804+A2.

Comparability

EPDs of construction products may not be comparable if they do not comply with the requirements in EN 15804. EPD data may not be comparable if the datasets used are not developed in accordance with EN 15804 and if the background systems are not based on the same database.

Validity

This EPD has been verified in accordance with ISO 14025 and is valid for 5 years from the date of issue.

Use

The intended use of an EPD is to communicate scientifically based environmental information for construction products, for the purpose of assessing the environmental performance of buildings.

EPD type

- Cradle-to-gate with modules C1-C4 and D
- Cradle-to-gate with options, modules C1-C4 and D
- Cradle-to-grave and module D
- Cradle-to-gate
- Cradle-to-gate with options

CEN standard EN 15804 serves as the core PCR

Independent verification of the declaration and data, according to EN ISO 14025

internal external

Third party verifier:

David Althoff Palm

David Althoff Palm

Martha Katrine Sørensen
 Martha Katrine Sørensen
 EPD Danmark

Life cycle stages and modules (MND = module not declared)

Product			Construction process		Use								End of life				Beyond the system boundary
Raw material supply	Transport	Manufacturing	Transport	Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Re-use, recovery and recycling potential	
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Product information

Product description

Tres Recrafted has a frame made of Norto solid pine – surplus wood that would otherwise have been burned. The tabletop is made from recycled tabletops from old, discarded desks.

The main product components are shown in the table below.

Product composition of	Ø150x90	Ø150x74	282x110x90	282x110x74	212x110x90	212x110x74	141x110x90	141x110x74
	Amount [kg]							
Pine wood	7,24	6,60	15,05	14,25	14,54	13,74	12,41	11,61
MDF	34,47	34,47	47,43	47,43	35,57	35,57	23,72	23,72
Coating powder	0,81	0,81	1,12	1,12	0,84	0,84	0,56	0,56
Steel	1,71	1,61	2,97	2,91	2,32	2,24	2,08	1,96
Sum	44,23	43,49	66,58	65,72	53,28	52,40	38,77	37,85
	Weight-% of declared product							
Pine wood	16,36	15,17	22,61	21,69	27,30	26,23	32,02	30,68
MDF	77,92	79,25	71,24	72,18	66,77	67,89	61,17	62,66
Coating powder	1,84	1,87	1,68	1,70	1,58	1,60	1,44	1,48
Steel	3,87	3,71	4,46	4,43	4,36	4,28	5,37	5,18

Product packaging:

The composition of the sales- and transport packaging of the product is shown in the table below.

Packaging composition of	212x110x74	212x110x90	282x110x74	282x110x90	353x110x74	353x110x90	424x110x74	424x110x90	Ø150x74	Ø150x90											
	Material										Amount [kg]										
Polypropylene											0,001										
Corrugated cardboard box											2,80										
MDF											0,03										
Steel											0,15										
LDPE											0,50										
EUR-pallet											22,00										
Pine											0,26										
Sum											25,75										
											Weight-% of packaging										
Polypropylene											0,00										
Corrugated cardboard box											10,87										
MDF											0,13										
Steel											0,59										
LDPE											1,94										
EUR-pallet											85,44										
Pine											1,03										

Representativity

This declaration, including data collection and the modeled foreground system including results, represents the production of the Tres conference/meeting table series on the production site located in Bjerringbro, Denmark (and Vinderup, Varde and Gredstedbro, Denmark). Product specific data are based on average values collected in the period from February to May 2024. Background data are based on the Ecoinvent 3.10 EN 15804 and are less than 10 years old. The majority of the datasets are only a couple of years old. The market this EPD is made for is Denmark, as the tables are produced, used and undergo end of life treatment I in Denmark.

Hazardous substances

The Tres conference/meeting table series does not contain substances listed on the "Candidate List of Substances of Very High Concern for authorisation"

(<http://echa.europa.eu/candidate-list-table>)

Product(s) use

The Tres conference/meeting table series provide a level surface for conferences/meetings.

Essential characteristics

Further technical information can be obtained by contacting the manufacturer or on the manufacturers website:

<https://www.holmrisb8.com>

Reference Service Life (RSL)

The RSL of the product is 15 years.

Picture of product(s)



LCA background

Functional unit

The LCI and LCIA results in this EPD relates to one Tres table (8 variants).

FU: Production of one table solution provided and maintained for a period of 15 years.

	141x110x74	141x110x90	212x110x74	212x110x90	282x110x74	282x110x90	Ø150x74	Ø150x90	
Name	Value								Unit
Functional unit	1	1	1	1	1	1	1	1	Item
Density	37,85	38,77	52,40	53,28	65,72	66,58	43,49	44,23	kg/item
Conversion factor to 1 kg	0,026	0,026	0,019	0,019	0,015	0,015	0,023	0,023	-

PCR

This EPD is developed according to the core rules for the product category of construction products in EN 15804, and NPCR 026:2022 – Part B for Furniture.

Energy modelling principles

Foreground system:

The product is produced using energy covered by GoO in parts of the production (powder coating). The renewable energy covered by GoO is modelled based on the share of respectively solar (14%) and wind (86%) energy in Denmark in 2022. Remaining energy processes is modelled using Danish residual electricity mix.

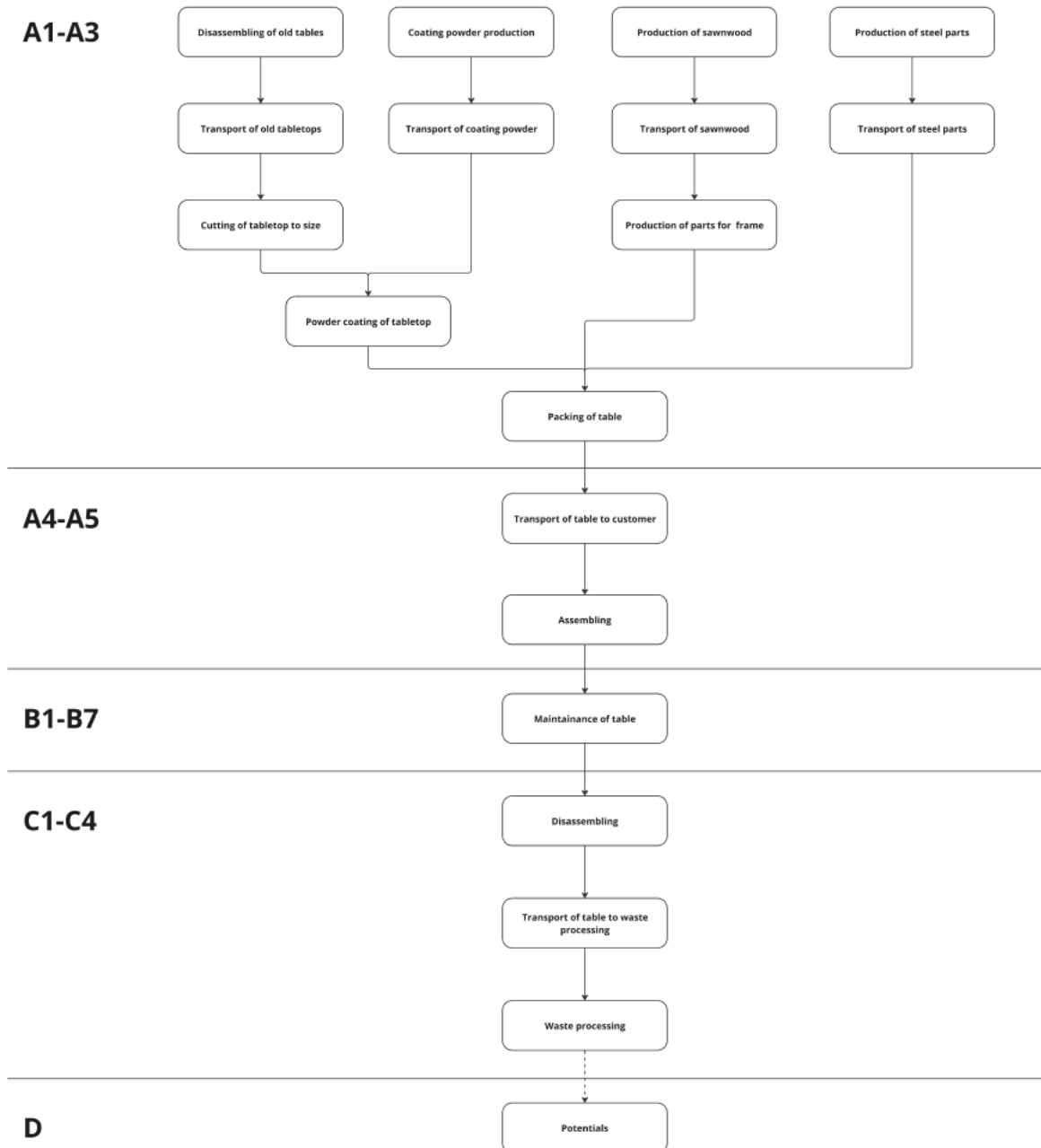
Danish residual energy mix: 0,63 kg CO₂e/kWh

Electricity covered by GoO: 0,03 kg CO₂e/kWh

Background system:

Upstream processes are modelled using Danish residual electricity mix. Downstream processes are modelled using Danish market for electricity.

Flow diagram



System boundary

This EPD is based on a cradle-to-grave LCA, in which 100 weight-% has been accounted for.

The general rules for the exclusion of inputs and outputs follows the requirements in EN 15804, 6.3.5, where the total of neglected input flows per module shall be a maximum of 5 % of energy usage and mass and 1 % of energy usage and mass for unit processes.

Energy consumption in the production of pine wood parts is based on mass allocation.

Waste from cutting of MDF is based in mass allocation.

Product stage (A1-A3) includes:

A1 – Extraction and processing of raw materials

A2 – Transport to the production site

A3 – Manufacturing processes

The product stage comprises the acquisition of all raw materials, products and energy, transport to the production site, packaging and waste processing up to the “end-of-waste” state

The tabletop is manufactured from recycled MDF from old tables mainly sources from offices in Greater Copenhagen, Denmark. The MDF is cut to size in Gredstedbro, Denmark and powder coated in Varde, Denmark. The table frame is manufactured from pine wood from Sweden and Finland in Vinderup, Denmark. All parts (including prefabricated steel components) are transported to and packaged in Bjerringbro, Denmark.

Construction process stage (A4-A5) includes:

The construction phase includes transport from the factory gate to the customer, as well as installation in the form of product assembly. Additionally, the waste treatment of packaging from the products is also included in this phase.

Use stage (B1-B7) includes:

B2 – Maintenance

It is recommended by the manufacture that the tabletop is cleaned using a soft cloth and soap water, thus this is assumed.

B1 + B3-B7 are not relevant for the products as it is furniture.

End of Life (C1-C4) includes:

C1-C4 involves the handling of the products at the end-of-life stage by the end-customer.

C1 – Disassembling

It is assumed that the end-customer disassembles the product and sorts it as residual waste.

C2 – Transport to end-of-life treatment

This module includes the transport of the tables to the end-of-life treatment.

C3 – Waste processing

It is assumed that the tables are incinerated with heat and electricity recovery.

C4 – Disposal

Disposal of incineration residue is included in C3.

The energy recovery will be stated as a benefit to the product life cycle since it will substitute primary energy production.

Re-use, recovery and recycling potential (D) includes:

As it is assumed that the products are incinerated the module include the benefits of the energy recovery.

LCA results

Tres 141x110x74

Core environmental impacts per Tres 141x110x74														
Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	-8,31E+01	6,31E+00	1,51E+01	2,69E+00	3,90E+01	0,00E+00	3,17E-01	0,00E+00	1,24E-03	2,99E-01	5,53E+01	0,00E+00	-5,39E+00
GWP-fossil	kg CO2 eq.	1,82E+01	6,30E+00	2,54E+00	2,69E+00	1,67E+00	0,00E+00	3,17E-01	0,00E+00	1,16E-03	2,99E-01	3,65E+00	0,00E+00	-5,30E+00
GWP-biogenic	kg CO2 eq.	-1,01E+02	4,50E-03	1,26E+01	1,86E-03	3,73E+01	0,00E+00	7,82E-05	0,00E+00	7,27E-05	2,07E-04	5,17E+01	0,00E+00	-8,49E-02
GWP-luluc	kg CO2 eq.	6,11E-02	2,34E-03	4,13E-04	8,92E-04	3,83E-05	0,00E+00	1,86E-04	0,00E+00	4,93E-06	9,91E-05	4,23E-04	0,00E+00	-5,95E-03
ODP	kg CFC 11 eq.	3,28E-07	1,27E-07	3,38E-08	5,34E-08	1,78E-09	0,00E+00	5,74E-07	0,00E+00	2,49E-11	5,94E-09	3,16E-08	0,00E+00	-1,96E-07
AP	mol H+ eq.	9,69E-02	1,50E-02	8,56E-03	5,60E-03	1,18E-03	0,00E+00	1,18E-03	0,00E+00	6,98E-06	6,22E-04	8,49E-03	0,00E+00	-1,10E-02
EP-freshwater	kg P eq.	7,61E-03	4,65E-04	8,44E-04	1,82E-04	2,41E-05	0,00E+00	6,46E-05	0,00E+00	8,54E-07	2,02E-05	6,66E-04	0,00E+00	-1,05E-03
EP-marine	kg N eq.	2,14E-02	4,00E-03	2,06E-03	1,34E-03	6,02E-04	0,00E+00	2,26E-04	0,00E+00	1,26E-06	1,49E-04	3,62E-03	0,00E+00	-2,57E-03
EP-terrestrial	mol N eq.	2,00E-01	4,33E-02	2,06E-02	1,45E-02	5,54E-03	0,00E+00	2,79E-03	0,00E+00	1,51E-05	1,61E-03	3,51E-02	0,00E+00	-2,93E-02
POCP	kg NMVOC eq.	7,88E-02	2,49E-02	6,24E-03	9,30E-03	1,41E-03	0,00E+00	1,16E-03	0,00E+00	3,78E-06	1,03E-03	1,05E-02	0,00E+00	-1,19E-02
ADPm	kg Sb eq.	1,16E-04	2,01E-05	1,95E-05	8,96E-06	3,78E-07	0,00E+00	1,99E-06	0,00E+00	3,66E-08	9,95E-07	5,78E-06	0,00E+00	-4,37E-05
ADPF	MJ	2,75E+02	9,12E+01	2,86E+01	3,78E+01	1,05E+00	0,00E+00	4,09E+00	0,00E+00	1,87E-02	4,20E+00	1,96E+01	0,00E+00	-8,46E+01
WDP(1)	m3 world eq. dep.	1,01E+01	4,74E-01	5,63E-01	1,85E-01	1,85E-01	0,00E+00	7,56E-02	0,00E+00	2,10E-03	2,05E-02	1,25E+00	0,00E+00	-2,54E+00
Caption	GWP-total = Global Warming Potential - total; 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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication - aquatic freshwater; EP-marine = Eutrophication - aquatic marine; EP-terrestrial = Eutrophication - terrestrial; POCP = Photochemical ozone formation; ADPm = Abiotic Depletion Potential - minerals and metals; ADPF = Abiotic Depletion Potential - fossil fuels; WDP = water use.													
Disclaimer	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.													

Additional environmental impacts per Tres 141x110x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PM	[Disease incidence]	1,42E-06	5,18E-07	5,09E-08	1,98E-07	1,01E-08	0,00E+00	1,40E-08	0,00E+00	4,58E-11	2,20E-08	9,93E-08	0,00E+00	-7,00E-08
IRP (2)	[kBq U235 eq.]	2,05E+00	1,33E-01	2,24E-01	4,90E-02	2,12E-03	0,00E+00	1,58E-02	0,00E+00	4,15E-04	5,45E-04	4,54E-02	0,00E+00	-4,99E-01
ETP-fw (1)	[CTUe]	3,37E+02	2,40E+01	8,72E+00	1,03E+01	5,69E+00	0,00E+00	1,60E+00	0,00E+00	7,92E-03	1,14E+00	2,95E+01	0,00E+00	-1,25E+01
HTP-c (1)	[CTUh]	6,62E-07	4,35E-08	9,26E-09	1,91E-08	1,59E-09	0,00E+00	1,30E-09	0,00E+00	5,41E-12	2,12E-09	1,72E-08	0,00E+00	-1,25E-08
HTP-nc (1)	[CTUh]	2,68E-07	5,89E-08	4,58E-08	2,45E-08	1,38E-08	0,00E+00	2,73E-09	0,00E+00	3,89E-11	2,72E-09	7,80E-08	0,00E+00	-4,96E-08
SQP (1)	-	2,22E+03	7,17E+01	5,71E+00	2,28E+01	3,71E-01	0,00E+00	1,13E+00	0,00E+00	3,26E-02	2,54E+00	3,60E+00	0,00E+00	-3,84E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation - human health; ETP-fw = Eco toxicity - freshwater; HTP-c = Human toxicity - cancer effects; HTP-nc = Human toxicity - non cancer effects; SQP = Soil Quality.													
Disclaimers	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator. (2) This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.													

Resource use per Tres 141x110x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PERE	[MJ]	4,22E+02	1,69E+00	1,68E+02	6,49E-01	5,47E+01	0,00E+00	2,81E-01	0,00E+00	2,88E-02	7,21E-02	5,88E+02	0,00E+00	-3,34E+01
PERM	[MJ]	7,89E+02	0,00E+00	-1,47E+02	0,00E+00	-5,47E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-5,88E+02	0,00E+00	0,00E+00
PERT	[MJ]	1,21E+03	1,69E+00	2,10E+01	6,49E-01	2,88E-02	0,00E+00	2,81E-01	0,00E+00	2,88E-02	7,21E-02	0,00E+00	0,00E+00	-3,34E+01
PENRE	[MJ]	2,61E+02	8,28E+01	2,43E+01	3,43E+01	2,15E+01	0,00E+00	5,48E+00	0,00E+00	1,83E-02	3,81E+00	1,68E+01	0,00E+00	-8,00E+01
PENRM	[MJ]	3,82E+01	0,00E+00	0,00E+00	0,00E+00	-2,14E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,68E+01	0,00E+00	0,00E+00
PENRT	[MJ]	2,99E+02	8,28E+01	2,43E+01	3,43E+01	1,83E-02	0,00E+00	5,48E+00	0,00E+00	1,83E-02	3,81E+00	0,00E+00	0,00E+00	-8,00E+01
SM	[kg]	5,27E+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
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
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
PW	[m3]	2,16E-01	1,34E-02	4,18E-02	5,08E-03	3,86E-03	0,00E+00	1,38E-02	0,00E+00	6,84E-05	5,65E-04	1,06E-02	0,00E+00	-8,20E-02
Caption	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; PW = Net use of fresh water.													

Waste categories and output flows per Tres 141x110x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
HWD	[kg]	2,65E+00	9,42E-02	9,70E-02	3,75E-02	6,41E-02	0,00E+00	1,02E-02	0,00E+00	3,57E-05	4,17E-03	3,30E-01	0,00E+00	-6,29E-02
NHWD	[kg]	6,42E+01	9,86E-01	8,93E+00	4,16E-01	4,88E+00	0,00E+00	7,74E-01	0,00E+00	3,82E-04	4,62E-02	3,91E+01	0,00E+00	-6,37E-01
RWD	[kg]	5,24E-04	3,31E-05	5,51E-05	1,22E-05	5,26E-07	0,00E+00	3,93E-06	0,00E+00	9,45E-08	1,35E-06	1,20E-05	0,00E+00	-1,14E-04
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,11E+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
MFR	[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
MER	[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
EEE	[MJ]	0,00E+00	0,00E+00	1,49E+01	0,00E+00	1,01E+01	0,00E+00	1,42E-01	0,00E+00	0,00E+00	0,00E+00	6,20E+01	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	3,22E+01	0,00E+00	2,01E+01	0,00E+00	2,77E-01	0,00E+00	0,00E+00	0,00E+00	1,40E+02	0,00E+00	0,00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy.													

Tres 141x110x90

Core environmental impacts per Tres 141x110x90														
Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	-8,37E+01	6,51E+00	1,54E+01	2,75E+00	3,90E+01	0,00E+00	3,17E-01	0,00E+00	1,24E-03	3,06E-01	5,65E+01	0,00E+00	-5,61E+00
GWP-fossil	kg CO2 eq.	1,88E+01	6,51E+00	2,86E+00	2,75E+00	1,67E+00	0,00E+00	3,17E-01	0,00E+00	1,16E-03	3,06E-01	3,67E+00	0,00E+00	-5,52E+00
GWP-biogenic	kg CO2 eq.	-1,03E+02	4,62E-03	1,26E+01	1,90E-03	3,73E+01	0,00E+00	7,82E-05	0,00E+00	7,27E-05	2,12E-04	5,29E+01	0,00E+00	-8,87E-02
GWP-luluc	kg CO2 eq.	6,30E-02	2,41E-03	4,53E-04	9,12E-04	3,83E-05	0,00E+00	1,86E-04	0,00E+00	4,93E-06	1,02E-04	4,27E-04	0,00E+00	-6,22E-03
ODP	kg CFC 11 eq.	3,34E-07	1,32E-07	3,82E-08	5,46E-08	1,78E-09	0,00E+00	5,74E-07	0,00E+00	2,49E-11	6,08E-09	3,18E-08	0,00E+00	-2,04E-07
AP	mol H+ eq.	9,93E-02	1,55E-02	9,67E-03	5,72E-03	1,18E-03	0,00E+00	1,18E-03	0,00E+00	6,98E-06	6,37E-04	8,63E-03	0,00E+00	-1,15E-02
EP-freshwater	kg P eq.	7,86E-03	4,80E-04	9,78E-04	1,86E-04	2,41E-05	0,00E+00	6,46E-05	0,00E+00	8,54E-07	2,07E-05	6,73E-04	0,00E+00	-1,09E-03
EP-marine	kg N eq.	2,21E-02	4,14E-03	2,28E-03	1,37E-03	6,02E-04	0,00E+00	2,26E-04	0,00E+00	1,26E-06	1,53E-04	3,70E-03	0,00E+00	-2,88E-03
EP-terrestrial	mol N eq.	2,06E-01	4,47E-02	2,28E-02	1,48E-02	5,54E-03	0,00E+00	2,79E-03	0,00E+00	1,51E-05	1,65E-03	3,58E-02	0,00E+00	-3,05E-02
POCP	kg NMVOC eq.	8,12E-02	2,57E-02	6,90E-03	9,50E-03	1,41E-03	0,00E+00	1,16E-03	0,00E+00	3,78E-06	1,06E-03	1,07E-02	0,00E+00	-1,24E-02
ADPm	kg Sb eq.	1,19E-04	2,07E-05	2,19E-05	9,15E-06	3,78E-07	0,00E+00	1,99E-06	0,00E+00	3,66E-08	1,02E-06	5,82E-06	0,00E+00	-4,56E-05
ADPF	mJ	2,82E+02	9,43E+01	3,30E+01	3,86E+01	1,05E+00	0,00E+00	4,09E+00	0,00E+00	1,87E-02	4,30E+00	1,97E+01	0,00E+00	-8,80E+01
WDPA(1)	m3 world eq. dep.	1,04E+01	4,90E-01	5,94E-01	1,89E-01	2,81E-01	0,00E+00	7,56E-02	0,00E+00	2,10E-03	2,10E-02	1,28E+00	0,00E+00	-2,65E+00
Caption	GWP-total = Global Warming Potential - total; 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 = Ozone Depletor; AP = Acidification; EP-freshwater = Eutrophication - aquatic freshwater; EP-marine = Eutrophication - aquatic marine; EP-terrestrial = terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential - minerals and metals; ADPF = Abiotic Depletion Potential - fossil fuels; WDP = water use													
Disclaimer	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.													

Additional environmental impacts per Tres 141x110x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
[Disease incidence]		1,48E-06	5,38E-07	5,49E-08	2,02E-07	1,01E-08	0,00E+00	1,40E-08	0,00E+00	4,98E-11	2,25E-08	1,01E-07	0,00E+00	-7,30E-08
IRP (2)	[kBq U235 eq.]	2,11E+00	1,37E-01	2,64E-01	5,01E-02	2,12E-03	0,00E+00	1,58E-02	0,00E+00	4,15E-04	5,58E-03	4,56E-02	0,00E+00	-5,21E-01
ETP-fw (1)	[CTUe]	3,50E+02	2,48E+01	9,57E+00	1,05E+01	5,69E+00	0,00E+00	1,60E+00	0,00E+00	7,92E-03	1,17E+00	2,97E+01	0,00E+00	-1,30E+01
HTP-c (1)	[CTUh]	6,97E-07	4,48E-08	9,70E-09	1,95E-08	1,59E-09	0,00E+00	1,30E-09	0,00E+00	5,41E-12	2,17E-09	1,75E-08	0,00E+00	-1,30E-08
HTP-nc (1)	[CTUh]	2,78E-07	6,10E-08	5,00E-08	2,50E-08	1,38E-08	0,00E+00	2,73E-09	0,00E+00	3,89E-11	2,79E-09	7,96E-08	0,00E+00	-5,18E-08
SQP (1)	-	2,34E+03	7,48E+01	6,31E+00	2,33E+01	3,71E-01	0,00E+00	1,13E+00	0,00E+00	3,26E-02	2,60E+00	3,67E+00	0,00E+00	-4,01E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation - human health; ETP-fw = Eco toxicity - freshwater; HTP-c = Human toxicity - cancer effects; HTP-nc = Human toxicity - non-cancer effects; SQP = Soil Quality													
Disclaimers	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator. (2) This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.													

Resource use per Tres 141x110x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PERE	[MJ]	4,46E+02	1,74E+00	1,68E+02	6,63E-01	5,47E+01	0,00E+00	2,81E-01	0,00E+00	2,88E-02	7,39E-02	6,00E+02	0,00E+00	-3,49E+01
PERM	[MJ]	8,01E+02	0,00E+00	-1,47E+02	0,00E+00	-5,47E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-6,00E+02	0,00E+00	0,00E+00
PERT	[MJ]	1,25E+03	1,74E+00	2,14E+01	6,63E-01	2,88E+02	0,00E+00	2,81E-01	0,00E+00	2,88E-02	7,39E-02	0,00E+00	0,00E+00	-3,49E+01
PENRE	[MJ]	2,68E+02	8,56E+01	2,86E+01	3,50E+01	2,15E+01	0,00E+00	5,48E+00	0,00E+00	1,83E-02	3,90E+00	1,68E+01	0,00E+00	-8,33E+01
PENRM	[MJ]	3,82E+01	0,00E+00	0,00E+00	0,00E+00	-2,14E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,68E+01	0,00E+00	0,00E+00
PENRT	[MJ]	3,08E+02	8,56E+01	2,86E+01	3,50E+01	1,83E-02	0,00E+00	5,48E+00	0,00E+00	1,83E-02	3,90E+00	0,00E+00	0,00E+00	-8,33E+01
SM	[kg]	5,27E+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
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
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
FW	[m3]	2,20E-01	1,39E-02	4,88E-02	5,19E-03	3,86E-03	0,00E+00	1,38E-02	0,00E+00	6,84E-05	5,78E-04	1,08E-02	0,00E+00	-8,57E-02
Caption	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; PERT = Total use of non renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water													

Waste categories and output flows per Tres 141x110x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
HWD	[kg]	2,77E+00	9,74E-02	1,01E-01	3,83E-02	6,41E-02	0,00E+00	1,02E-02	0,00E+00	3,57E-05	4,27E-03	3,35E-01	0,00E+00	-6,56E-02
NHWD	[kg]	6,65E+01	1,02E+00	8,98E+00	4,25E-01	4,88E+00	0,00E+00	7,74E-01	0,00E+00	3,82E-04	4,73E-02	4,01E+01	0,00E+00	-6,64E-01
RWD	[kg]	5,39E-04	3,41E-05	6,49E-05	1,24E-05	5,26E-07	0,00E+00	3,93E-06	0,00E+00	9,45E-08	1,39E-06	1,20E-05	0,00E+00	-1,19E-04
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,11E+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
MFR	[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
MER	[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
EEE	[MJ]	0,00E+00	0,00E+00	1,49E+01	0,00E+00	1,01E+01	0,00E+00	1,42E-01	0,00E+00	0,00E+00	0,00E+00	6,34E+01	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	3,23E+01	0,00E+00	2,01E+01	0,00E+00	2,77E-01	0,00E+00	0,00E+00	0,00E+00	1,42E+02	0,00E+00	0,00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy													

Tres 212x110x74

Core environmental impacts per Tres 212x110x74														
Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	-1,06E+02	8,32E+00	2,20E+01	3,61E+00	3,90E+01	0,00E+00	4,75E-01	0,00E+00	1,24E-03	4,14E-01	7,76E+01	0,00E+00	-6,27E+00
GWP-fossil	kg CO2 eq.	2,13E+01	8,32E+00	3,70E+00	3,61E+00	1,67E+00	0,00E+00	4,75E-01	0,00E+00	1,16E-03	4,13E-01	5,41E+00	0,00E+00	-6,17E+00
GWP-biogenic	kg CO2 eq.	-1,27E+02	5,85E-03	1,83E+01	2,50E-03	3,73E+01	0,00E+00	1,17E-04	0,00E+00	7,27E-05	2,86E-04	7,22E+01	0,00E+00	-9,61E-02
GWP-luluc	kg CO2 eq.	6,75E-02	3,05E-03	6,04E-04	1,20E-03	3,83E-05	0,00E+00	2,79E-04	0,00E+00	4,93E-06	1,37E-04	6,15E-04	0,00E+00	-6,74E-03
ODP	kg CFC 11 eq.	3,87E-07	1,68E-07	4,92E-08	7,17E-08	1,78E-09	0,00E+00	8,62E-07	0,00E+00	2,49E-11	8,22E-09	4,65E-08	0,00E+00	-2,29E-07
AP	mol H+ eq.	1,20E-01	1,94E-02	1,24E-02	7,52E-03	1,18E-03	0,00E+00	1,77E-03	0,00E+00	6,98E-06	8,61E-04	1,21E-02	0,00E+00	-1,26E-02
EP-freshwater	kg P eq.	8,84E-03	6,08E-04	1,22E-03	2,44E-04	2,41E-05	0,00E+00	9,69E-05	0,00E+00	8,54E-07	2,80E-05	9,66E-04	0,00E+00	-1,19E-03
EP-marine	kg N eq.	2,45E-02	5,09E-03	3,00E-03	1,81E-03	6,02E-04	0,00E+00	3,39E-04	0,00E+00	1,26E-06	2,07E-04	5,09E-03	0,00E+00	-2,95E-03
EP-terrestrial	mol N eq.	2,30E-01	5,51E-02	2,99E-02	1,95E-02	5,54E-03	0,00E+00	4,19E-03	0,00E+00	1,51E-05	2,23E-03	4,94E-02	0,00E+00	-3,36E-02
POCP	kg NMVOC eq.	9,20E-02	3,22E-02	9,08E-03	1,25E-02	1,41E-03	0,00E+00	1,74E-03	0,00E+00	3,78E-06	1,43E-03	1,49E-02	0,00E+00	-1,38E-02
ADPm	kg Sb eq.	1,40E-04	2,70E-05	2,84E-05	1,20E-05	3,78E-07	0,00E+00	2,99E-06	0,00E+00	3,66E-08	1,38E-06	8,52E-06	0,00E+00	-4,95E-05
ADPF	mJ	3,23E+02	1,20E+02	4,15E+01	5,08E+01	1,05E+00	0,00E+00	6,13E+00	0,00E+00	1,87E-02	5,82E+00	2,87E+01	0,00E+00	-9,84E+01
WDPI(1)	m3 world eq. dep.	1,19E+01	6,21E-01	8,21E-01	2,48E-01	2,81E-01	0,00E+00	1,13E-01	0,00E+00	2,10E-03	2,84E-02	1,76E+00	0,00E+00	-2,88E+00
Caption	GWP-total = Global Warming Potential - total; 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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication - aquatic freshwater; EP-marine = Eutrophication - aquatic marine; EP-terrestrial = Eutrophication - terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential - minerals and metals; ADPF = Abiotic Depletion Potential - fossil fuels; WDP = water use													
Disclaimer	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.													

Additional environmental impacts per Tres 212x110x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PM	[Disease incidence]	1,66E-06	6,71E-07	7,44E-08	2,66E-07	1,01E-08	0,00E+00	2,09E-08	0,00E+00	4,58E-11	3,04E-08	1,40E-07	0,00E+00	-7,99E-08
IRP (2)	[kBq U235 eq.]	2,46E+00	1,74E-01	3,23E-01	6,58E-02	2,12E-03	0,00E+00	2,37E-02	0,00E+00	4,15E-04	7,54E-03	6,73E-02	0,00E+00	-5,65E-01
ETP-fw (1)	[CTUe]	4,05E+02	3,19E+01	1,27E+01	1,38E+01	5,69E+00	0,00E+00	2,39E+00	0,00E+00	7,92E-03	1,58E+00	4,34E+01	0,00E+00	-1,42E+01
HTP-c (1)	[CTUh]	7,56E-07	5,77E-08	1,36E-08	2,56E-08	1,59E-09	0,00E+00	1,95E-09	0,00E+00	5,41E-12	2,94E-09	2,46E-08	0,00E+00	-1,14E-08
HTP-nc (1)	[CTUh]	3,10E-07	7,75E-08	6,65E-08	3,29E-08	1,38E-08	0,00E+00	4,09E-09	0,00E+00	3,89E-11	3,77E-09	1,10E-07	0,00E+00	-5,63E-08
SQP (1)	-	2,55E+03	9,13E+01	8,35E+00	3,07E+01	3,71E-01	1,69E+00	0,00E+00	0,00E+00	3,26E-02	3,51E+00	5,02E+00	0,00E+00	-4,35E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation - human health; ETP-fw = Eco toxicity - freshwater; HTP-c = Human toxicity - cancer effects; HTP-nc = Human toxicity - non cancer effects; SQP = Soil Quality													
Disclaimers	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator. (2) This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.													

Resource use per Tres 212x110x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PERE	[MJ]	4,86E+02	2,22E+00	2,45E+02	8,71E-01	5,47E+01	0,00E+00	4,22E-01	0,00E+00	2,88E-02	9,99E-02	8,25E+02	0,00E+00	-3,78E+01
PERM	[MJ]	1,09E+03	0,00E+00	-2,14E+02	0,00E+00	-5,47E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-8,25E+02	0,00E+00	0,00E+00
PERT	[MJ]	1,58E+03	2,22E+00	3,13E+01	8,71E-01	2,88E-02	0,00E+00	4,22E-01	0,00E+00	2,88E-02	9,99E-02	0,00E+00	0,00E+00	-3,78E+01
PENRE	[MJ]	3,07E+02	1,09E+02	3,50E+01	4,60E+01	2,15E+01	0,00E+00	8,23E+00	0,00E+00	1,83E-02	5,28E+00	2,52E+01	0,00E+00	-9,30E+01
PENRM	[MJ]	4,66E+01	0,00E+00	0,00E+00	0,00E+00	-2,14E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,52E+01	0,00E+00	0,00E+00
PENRT	[MJ]	3,53E+02	1,09E+02	3,50E+01	4,60E+01	1,83E-02	0,00E+00	8,23E+00	0,00E+00	1,83E-02	5,28E+00	0,00E+00	0,00E+00	-9,30E+01
SM	[kg]	6,86E+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
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
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
FW	[m3]	2,56E-01	1,75E-02	6,03E-02	6,82E-03	3,86E-03	0,00E+00	2,07E-02	0,00E+00	6,84E-05	7,82E-04	1,50E-02	0,00E+00	-9,29E-02
Caption	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water													

Waste categories and output flows per Tres 212x110x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
HWD	[kg]	3,09E+00	1,23E-01	1,42E-01	5,04E-02	6,41E-02	0,00E+00	1,52E-02	0,00E+00	3,57E-05	5,77E-03	4,75E-01	0,00E+00	-7,21E-02
NHWD	[kg]	7,61E+01	1,31E+00	1,30E+01	5,58E-01	4,88E+00	0,00E+00	1,16E+00	0,00E+00	3,82E-04	6,39E-02	5,37E+01	0,00E+00	-7,29E-01
RWD	[kg]	6,28E-04	4,32E-05	7,95E-05	1,64E-05	5,26E-07	0,00E+00	5,89E-06	0,00E+00	9,45E-08	1,87E-06	1,77E-05	0,00E+00	-1,29E-04
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,11E+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
MFR	[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
MER	[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
EEF	[MJ]	0,00E+00	0,00E+00	2,16E+01	0,00E+00	1,01E+01	0,00E+00	2,13E-01	0,00E+00	0,00E+00	0,00E+00	8,65E-01	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	4,70E+01	0,00E+00	2,01E+01	0,00E+00	4,16E-01	0,00E+00	0,00E+00	0,00E+00	1,97E-02	0,00E+00	0,00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEF = Exported electrical energy; EET = Exported thermal energy													

Tres 212x110x90

Core environmental impacts per Tres 212x110x90														
Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	-1,07E+02	8,53E+00	2,21E+01	3,67E+00	3,90E+01	0,00E+00	4,75E-01	0,00E+00	1,24E-03	4,21E-01	7,88E+01	0,00E+00	-6,49E+00
GWP-fossil	kg CO2 eq.	2,17E+01	8,52E+00	3,80E+00	3,66E+00	1,67E+00	0,00E+00	4,75E-01	0,00E+00	1,16E-03	4,20E-01	5,43E+00	0,00E+00	-6,38E+00
GWP-biogenic	kg CO2 eq.	-1,29E+02	5,97E-03	1,83E+01	2,54E-03	3,73E+01	0,00E+00	1,17E-04	0,00E+00	7,27E-05	2,91E-04	7,32E+01	0,00E+00	-9,99E-02
GWP-luluc	kg CO2 eq.	6,92E-02	3,12E-03	6,17E-04	1,22E-03	3,83E-05	0,00E+00	2,79E-04	0,00E+00	4,93E-06	1,40E-04	6,19E-04	0,00E+00	-7,01E-03
ODP	kg CFC 11 eq.	3,91E-07	1,72E-07	5,06E-08	7,28E-08	1,78E-09	0,00E+00	8,62E-07	0,00E+00	2,49E-11	8,36E-09	4,67E-08	0,00E+00	-2,36E-07
AP	mol H+ eq.	1,22E-01	1,99E-02	1,28E-02	7,63E-03	1,18E-03	0,00E+00	1,77E-03	0,00E+00	6,98E-06	8,76E-04	1,22E-02	0,00E+00	-1,31E-02
EP-freshwater	kg P eq.	9,02E-03	6,23E-04	1,26E-03	2,48E-04	2,41E-05	0,00E+00	9,69E-05	0,00E+00	8,54E-07	2,85E-05	9,72E-04	0,00E+00	-1,23E-03
EP-marine	kg N eq.	2,50E-02	5,23E-03	3,06E-03	1,83E-03	6,02E-04	0,00E+00	3,39E-04	0,00E+00	1,26E-06	2,10E-04	5,17E-03	0,00E+00	-3,06E-03
EP-terrestrial	mol N eq.	2,35E-01	5,65E-02	3,06E-02	1,98E-02	5,54E-03	0,00E+00	4,19E-03	0,00E+00	1,51E-05	2,27E-03	5,01E-02	0,00E+00	-3,49E-02
POCP	kg NMVOC eq.	9,40E-02	3,31E-02	9,28E-03	1,27E-02	1,41E-03	0,00E+00	1,74E-03	0,00E+00	3,78E-06	1,46E-03	1,51E-02	0,00E+00	-1,43E-02
ADPm	kg Sb eq.	1,43E-04	2,76E-05	2,92E-05	1,22E-05	3,78E-07	0,00E+00	2,99E-06	0,00E+00	3,66E-08	1,40E-06	8,55E-06	0,00E+00	-5,14E-05
ADPF	MJ	3,28E+02	1,23E+02	4,29E+01	5,15E+01	1,05E+00	0,00E+00	6,13E+00	0,00E+00	1,87E-02	5,91E+00	2,88E+01	0,00E+00	-1,02E+02
WDPA(1)	m3 world eq. dep.	1,21E+01	6,36E-01	8,32E-01	2,52E-01	2,81E-01	0,00E+00	1,13E-01	0,00E+00	2,10E-03	2,89E-02	1,79E+00	0,00E+00	-2,99E+00
Caption	GWP-total = Global Warming Potential - total; 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 = Ozone Depletor; AP = Acidification; EP-freshwater = Eutrophication - aquatic freshwater; EP-marine = Eutrophication - aquatic marine; EP-terrestrial = Eutrophication - terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential - minerals and metals; ADPF = Abiotic Depletion Potential - fossil fuels; WDP = water use													
Disclaimer	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.													

Additional environmental impacts per Tres 212x110x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PM [Disease incidence]		1,71E-06	6,91E-07	7,57E-08	2,70E-07	1,01E-08	0,00E+00	2,09E-08	0,00E+00	4,58E-11	3,10E-08	1,42E-07	0,00E+00	-8,30E-08
IRP (2)	[kBq U235 eq.]	2,50E+00	1,77E-01	3,36E-01	6,69E-02	2,12E-03	0,00E+00	2,37E-02	0,00E+00	4,15E-04	7,67E-03	6,75E-02	0,00E+00	-5,88E-01
ETP-fw (1)	[CTUh]	4,13E+02	3,26E+01	1,30E+01	1,40E+01	5,69E+00	0,00E+00	2,39E+00	0,00E+00	7,92E-03	1,61E+00	4,36E+01	0,00E+00	-1,48E+01
HTP-c (1)	[CTUh]	7,79E-07	5,90E-08	1,38E-08	2,60E-08	1,59E-09	0,00E+00	1,95E-09	0,00E+00	5,41E-12	2,98E-09	2,48E-08	0,00E+00	-1,49E-08
HTP-nc (1)	[CTUh]	3,17E-07	7,96E-08	6,79E-08	3,34E-08	1,38E-08	0,00E+00	4,09E-09	0,00E+00	3,89E-11	3,83E-09	1,11E-07	0,00E+00	-5,85E-08
SOQ (1)		2,67E+03	9,44E+01	8,54E+00	3,11E+01	3,71E+01	0,00E+00	1,69E+00	0,00E+00	3,26E-02	3,57E+00	5,08E+00	0,00E+00	-4,52E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation - human health; ETP-fw = Eco toxicity - freshwater; HTP-c = Human toxicity - cancer effects; HTP-nc = Human toxicity - non cancer effects; SOQ = Soil Quality													
Disclaimers	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator. (2) This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.													

Resource use per Tres 212x110x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PERE	[MJ]	5,10E+02	2,27E+00	2,45E+02	8,85E-01	5,47E+01	0,00E+00	4,22E-01	0,00E+00	2,88E-02	1,02E-01	8,37E+02	0,00E+00	-3,93E+01
PERM	[MJ]	1,11E+03	0,00E+00	-2,14E+02	0,00E+00	-5,47E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-8,37E+02	0,00E+00	0,00E+00
PERT	[MJ]	1,61E+03	2,27E+00	3,15E+01	8,85E-01	2,88E-02	0,00E+00	4,22E-01	0,00E+00	2,88E-02	1,02E-01	0,00E+00	0,00E+00	-3,93E+01
PENRE	[MJ]	3,12E+02	1,12E+02	3,64E+01	4,67E+01	2,15E+01	0,00E+00	8,23E+00	0,00E+00	1,83E-02	5,36E+00	2,52E+01	0,00E+00	-9,63E+01
PENRM	[MJ]	4,66E+01	0,00E+00	0,00E+00	0,00E+00	-2,14E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,52E+01	0,00E+00	0,00E+00
PENRT	[MJ]	3,58E+02	1,12E+02	3,64E+01	4,67E+01	1,83E-02	0,00E+00	8,23E+00	0,00E+00	1,83E-02	5,36E+00	0,00E+00	0,00E+00	-9,63E+01
SM	[kg]	6,88E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
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
FW	[m3]	2,59E-01	1,80E-02	6,25E-02	6,93E-03	3,86E-03	0,00E+00	2,07E-02	0,00E+00	6,84E-05	7,95E-04	1,52E-02	0,00E+00	-9,66E-02
Caption	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; PERT = Total use of non renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water													

Waste categories and output flows per Tres 212x110x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
HWD	[kg]	3,17E+00	1,26E-01	1,43E-01	5,11E-02	6,41E-02	0,00E+00	1,52E-02	0,00E+00	3,57E-05	5,87E-03	4,79E-01	0,00E+00	-7,48E-02
NHWD	[kg]	7,77E+01	1,34E+00	1,30E+01	5,66E-01	4,88E+00	0,00E+00	1,16E+00	0,00E+00	3,82E-04	6,50E-02	5,47E+01	0,00E+00	-7,56E-01
RWD	[kg]	6,40E-04	4,42E-05	8,26E-05	1,66E-05	5,26E-07	0,00E+00	5,89E-06	0,00E+00	9,45E-08	1,91E-06	1,78E-05	0,00E+00	-1,34E-04
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,11E+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
MFR	[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
MER	[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
EEF	[MJ]	0,00E+00	0,00E+00	2,16E+01	0,00E+00	1,01E+01	0,00E+00	2,13E-01	0,00E+00	0,00E+00	0,00E+00	8,79E-01	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	4,70E+01	0,00E+00	2,01E+01	0,00E+00	4,16E-01	0,00E+00	0,00E+00	0,00E+00	1,99E+02	0,00E+00	0,00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEF = Exported electrical energy; EET = Exported thermal energy													

Tres 282x110x74

Core environmental impacts per Tres 282x110x74														
Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	-1,25E+02	9,96E+00	2,85E+01	4,45E+00	3,90E+01	0,00E+00	6,34E-01	0,00E+00	1,24E-03	5,19E-01	9,74E+01	0,00E+00	-6,70E+00
GWP-fossil	kg CO2 eq.	2,59E+01	9,95E+00	4,44E+00	4,45E+00	1,67E+00	0,00E+00	6,33E-01	0,00E+00	1,16E-03	5,18E-01	7,15E+00	0,00E+00	-6,59E+00
GWP-biogenic	kg CO2 eq.	-1,51E+02	7,04E-03	2,41E+01	3,08E-03	3,73E+01	0,00E+00	1,56E-04	0,00E+00	7,27E-05	3,59E-04	9,03E+01	0,00E+00	-9,95E-02
GWP-luluc	kg CO2 eq.	7,42E-02	3,63E-03	7,42E-04	1,48E-03	3,83E-05	0,00E+00	3,72E-04	0,00E+00	4,93E-06	1,72E-04	8,04E-04	0,00E+00	-7,00E-03
ODP	kg CFC 11 eq.	4,59E-07	2,00E-07	5,87E-08	8,85E-08	1,78E-09	0,00E+00	1,15E-06	0,00E+00	2,49E-11	1,03E-08	6,12E-08	0,00E+00	-2,45E-07
AP	mol H+ eq.	1,48E-01	2,30E-02	1,48E-02	9,27E-03	1,18E-03	0,00E+00	2,36E-03	0,00E+00	6,98E-06	1,08E-03	1,54E-02	0,00E+00	-1,32E-02
EP-freshwater	kg P eq.	1,07E-02	7,27E-04	1,42E-03	3,02E-04	2,41E-05	0,00E+00	1,29E-04	0,00E+00	8,54E-07	3,51E-05	1,26E-03	0,00E+00	-1,23E-03
EP-marine	kg N eq.	2,87E-02	5,98E-03	3,65E-03	2,23E-03	6,02E-04	0,00E+00	4,53E-04	0,00E+00	1,26E-06	2,59E-04	6,44E-03	0,00E+00	-3,12E-03
EP-terrestrial	mol N eq.	2,70E-01	6,46E-02	3,64E-02	2,40E-02	5,54E-03	0,00E+00	5,58E-03	0,00E+00	1,51E-05	2,80E-03	6,25E-02	0,00E+00	-3,54E-02
POCP	kg NMVOC eq.	1,09E-01	3,80E-02	1,11E-02	1,54E-02	1,41E-03	0,00E+00	2,32E-03	0,00E+00	3,78E-06	1,79E-03	1,91E-02	0,00E+00	-1,46E-02
ADPm	kg Sb eq.	1,74E-04	3,27E-05	3,42E-05	1,48E-05	3,78E-07	0,00E+00	3,99E-06	0,00E+00	3,66E-08	1,73E-06	1,12E-05	0,00E+00	-5,13E-05
ADPF	MJ	3,88E+02	1,43E+02	4,85E+01	6,26E+01	1,05E+00	0,00E+00	8,18E+00	0,00E+00	1,87E-02	7,29E+00	3,76E+01	0,00E+00	-1,05E+02
WDPA(1)	m3 world eq. dep.	1,44E+01	7,39E-01	3,06E-01	3,06E-01	2,81E-01	0,00E+00	1,51E-01	0,00E+00	2,10E-03	3,57E-02	2,21E+00	0,00E+00	-2,99E+00
Caption	GWP-total = Global Warming Potential - total; 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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication - aquatic freshwater; EP-marine = Eutrophication - aquatic marine; EP-terrestrial = Eutrophication - terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential - minerals and metals; ADPF = Abiotic Depletion Potential - fossil fuels; WDP = water use													
Disclaimer	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.													

Additional environmental impacts per Tres 282x110x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PM [Disease incidence]		1,97E-06	7,87E-07	9,26E-08	3,28E-07	1,01E-08	0,00E+00	2,79E-08	0,00E+00	4,58E-11	3,82E-08	1,79E-07	0,00E+00	-8,36E-08
IRP (2)	[kBq U235 eq.]	3,00E+00	2,08E-01	3,69E-01	8,12E-02	2,12E-03	0,00E+00	3,16E-02	0,00E+00	4,15E-04	9,46E-03	8,91E-02	0,00E+00	-5,86E-01
ETP-fw (1)	[CTUh]	5,10E+02	3,84E+01	1,56E+01	1,70E+01	5,69E+00	0,00E+00	3,19E+00	0,00E+00	7,92E-03	1,99E+00	5,71E+01	0,00E+00	-1,49E+01
HTP-c (1)	[CTUh]	9,60E-07	6,94E-08	1,75E-08	3,16E-08	1,59E-09	0,00E+00	2,60E-09	0,00E+00	5,41E-12	3,68E-09	3,16E-08	0,00E+00	-1,52E-08
HTP-nc (1)	[CTUh]	3,79E-07	9,23E-08	8,18E-08	4,05E-08	1,38E-08	0,00E+00	5,46E-09	0,00E+00	3,89E-11	4,72E-09	1,38E-07	0,00E+00	-5,86E-08
SOQ (1)		2,65E+03	1,05E-02	1,02E+01	3,78E+01	3,71E-01	0,00E+00	2,26E+00	0,00E+00	3,26E-02	4,41E+00	6,52E+00	0,00E+00	-4,51E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation - human health; ETP-fw = Eco toxicity - freshwater; HTP-c = Human toxicity - cancer effects; HTP-nc = Human toxicity - non cancer effects; SOQ = Soil Quality													
Disclaimers	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator. (2) This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.													

Resource use per Tres 282x110x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PERE	[MJ]	5,08E+02	2,66E+00	3,23E+02	1,07E+00	5,47E+01	0,00E+00	5,62E-01	0,00E+00	2,88E-02	1,25E-01	1,04E+03	0,00E+00	-3,91E+01
PERM	[MJ]	1,37E+03	0,00E+00	-2,82E+02	0,00E+00	-5,47E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,04E+03	0,00E+00	0,00E+00
PERT	[MJ]	1,88E+03	2,66E+00	4,11E+01	1,07E+00	2,88E-02	0,00E+00	5,62E-01	0,00E+00	2,88E-02	1,25E-01	0,00E+00	0,00E+00	-3,91E+01
PENRE	[MJ]	3,69E+02	1,30E+02	4,01E+01	5,68E+01	2,15E+01	0,00E+00	1,10E+01	0,00E+00	1,83E-02	6,62E+00	3,36E+01	0,00E+00	-9,93E+01
PENRM	[MJ]	5,50E+01	0,00E+00	0,00E+00	0,00E+00	-2,14E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-3,36E+01	0,00E+00	0,00E+00
PENRT	[MJ]	4,24E+02	1,30E+02	4,01E+01	5,68E+01	1,83E-02	0,00E+00	1,10E+01	0,00E+00	1,83E-02	6,62E+00	0,00E+00	0,00E+00	-9,93E+01
SM	[kg]	8,44E+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
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
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
FW	[m3]	3,09E-01	2,08E-02	6,96E-02	8,41E-03	3,86E-03	0,00E+00	2,76E-02	0,00E+00	6,84E-05	9,80E-04	1,91E-02	0,00E+00	-9,64E-02
Caption	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water													

Waste categories and output flows per Tres 282x110x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
HWD	[kg]	3,92E+00	1,47E-01	1,82E-01	6,21E-02	6,41E-02	0,00E+00	2,03E-02	0,00E+00	3,57E-05	7,24E-03	6,10E-01	0,00E+00	-7,58E-02
NHWD	[kg]	9,53E+01	1,58E+00	1,70E+01	6,88E-01	4,88E+00	0,00E+00	1,55E+00	0,00E+00	3,82E-04	8,02E-02	6,74E+01	0,00E+00	-7,65E-01
RWD	[kg]	7,67E-04	5,18E-05	9,09E-05	2,02E-05	5,26E-07	0,00E+00	7,85E-06	0,00E+00	9,45E-08	2,35E-06	2,35E-05	0,00E+00	-1,34E-04
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,11E+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
MFR	[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
MER	[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
EEF	[MJ]	0,00E+00	0,00E+00	2,85E+01	0,00E+00	1,01E+01	0,00E+00	2,84E-01	0,00E+00	0,00E+00	0,00E+00	1,08E-02	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	6,19E+01	0,00E+00	2,01E+01	0,00E+00	5,54E-01	0,00E+00	0,00E+00	0,00E+00	2,48E-02	0,00E+00	0,00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEF = Exported electrical energy; EET = Exported thermal energy													

Tres 282x110x90

Core environmental impacts per Tres 282x110x90														
Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	-1,26E+02	1,02E+01	2,86E+01	4,51E+00	3,90E+01	0,00E+00	6,34E-01	0,00E+00	1,24E-03	5,26E-01	9,86E+01	0,00E+00	-6,92E+00
GWP-fossil	kg CO2 eq.	2,62E+01	1,02E+01	4,54E+00	4,50E+00	1,67E+00	0,00E+00	6,33E-01	0,00E+00	1,16E-03	5,25E-01	7,16E+00	0,00E+00	-6,81E+00
GWP-biogenic	kg CO2 eq.	-1,52E+02	7,16E-03	2,41E+01	3,12E-03	3,73E+01	0,00E+00	1,56E-04	0,00E+00	7,27E-05	3,64E-04	9,14E+01	0,00E+00	-1,03E-01
GWP-luluc	kg CO2 eq.	7,57E-02	3,70E-03	7,55E-04	1,50E-03	3,83E-05	0,00E+00	3,72E-04	0,00E+00	4,93E-06	1,74E-04	8,08E-04	0,00E+00	-7,26E-03
ODP	kg CFC 11 eq.	4,63E-07	2,05E-07	6,01E-08	8,96E-08	1,78E-09	0,00E+00	1,15E-06	0,00E+00	2,49E-11	1,04E-08	6,14E-08	0,00E+00	-2,53E-07
AP	mol H+ eq.	1,50E-01	2,35E-02	1,52E-02	9,38E-03	1,18E-03	0,00E+00	2,36E-03	0,00E+00	6,98E-06	1,09E-03	1,56E-02	0,00E+00	-1,37E-02
EP-freshwater	kg P eq.	1,08E-02	7,41E-04	1,46E-03	3,05E-04	2,41E-05	0,00E+00	1,29E-04	0,00E+00	8,54E-07	3,58E-05	1,27E-03	0,00E+00	-1,28E-03
EP-marine	kg N eq.	2,91E-02	6,11E-03	3,72E-03	2,25E-03	6,02E-04	0,00E+00	4,53E-04	0,00E+00	1,26E-06	2,63E-04	6,51E-03	0,00E+00	-3,23E-03
EP-terrestrial	mol N eq.	2,74E-01	6,60E-02	3,71E-02	2,43E-02	5,54E-03	0,00E+00	5,58E-03	0,00E+00	1,51E-05	2,84E-03	6,32E-02	0,00E+00	-3,67E-02
POCP	kg NMVOC eq.	1,10E-01	3,89E-02	1,13E-02	1,56E-02	1,41E-03	0,00E+00	2,32E-03	0,00E+00	3,78E-06	1,82E-03	1,92E-02	0,00E+00	-1,51E-02
ADPm	kg Sb eq.	1,76E-04	3,33E-05	3,50E-05	1,50E-05	3,78E-07	0,00E+00	3,99E-06	0,00E+00	3,66E-08	1,75E-06	1,13E-05	0,00E+00	-5,33E-05
ADPF	MJ	3,92E+02	1,46E+02	4,99E+01	6,34E+01	1,05E+00	0,00E+00	8,18E+00	0,00E+00	1,87E-02	7,39E+00	3,78E+01	0,00E+00	-1,09E+02
WDPA(1)	m3 world eq. dep.	1,45E+01	7,55E-01	1,05E+00	3,10E-01	2,81E-01	0,00E+00	1,51E-01	0,00E+00	2,10E-03	3,61E-02	2,24E+00	0,00E+00	-3,10E+00
Caption	GWP-total = Global Warming Potential - total; 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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication - aquatic freshwater; EP-marine = Eutrophication - aquatic marine; EP-terrestrial = Eutrophication - terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential - minerals and metals; ADPF = Abiotic Depletion Potential - fossil fuels; WDP = water use													
Disclaimer	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.													

Additional environmental impacts per Tres 282x110x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PM	[Disease incidence]	2,02E-06	8,07E-07	9,39E-08	3,32E-07	1,01E-08	0,00E+00	2,79E-08	0,00E+00	4,58E-11	3,87E-08	1,81E-07	0,00E+00	-8,67E-08
IRP (2)	[kBq U235 eq.]	3,03E+00	2,12E-01	3,82E-01	8,22E-02	2,12E-03	0,00E+00	3,16E-02	0,00E+00	4,15E-04	9,59E-03	8,92E-02	0,00E+00	-6,09E-01
ETP-fw (1)	[CTUe]	5,16E+02	3,91E+01	1,59E+01	1,72E+01	5,69E+00	0,00E+00	3,19E+00	0,00E+00	7,92E-03	2,01E+00	5,72E+01	0,00E+00	-1,54E+01
HTP-c (1)	[CTUh]	9,78E-07	7,08E-08	1,76E-08	3,20E-08	1,59E-09	0,00E+00	2,60E-09	0,00E+00	5,41E-12	3,73E-09	3,18E-08	0,00E+00	-1,58E-08
HTP-nc (1)	[CTUh]	3,84E-07	9,43E-08	8,32E-08	4,10E-08	1,38E-08	0,00E+00	5,46E-09	0,00E+00	3,89E-11	4,79E-09	1,40E-07	0,00E+00	-6,08E-08
SQP (1)	-	2,77E+03	1,08E+02	1,04E+01	3,83E+01	3,71E-01	0,00E+00	2,26E+00	0,00E+00	3,26E-02	4,46E+00	6,57E+00	0,00E+00	-4,68E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation - human health; ETP-fw = Eco toxicity - freshwater; HTP-c = Human toxicity - cancer effects; HTP-nc = Human toxicity - non cancer effects; SQP = Soil Quality													
Disclaimers	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator. (2) This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.													

Resource use per Tres 282x110x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PERE	[MJ]	5,31E+02	2,71E+00	3,23E+02	1,09E+00	5,47E+01	0,00E+00	5,62E-01	0,00E+00	2,88E-02	1,27E-01	1,05E+03	0,00E+00	-4,06E+01
PERM	[MJ]	1,39E+03	0,00E+00	-2,82E+02	0,00E+00	-5,47E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,05E+03	0,00E+00	0,00E+00
PERT	[MJ]	1,92E+03	2,71E+00	4,12E+01	1,09E+00	2,88E-02	0,00E+00	5,62E-01	0,00E+00	2,88E-02	1,27E-01	0,00E+00	0,00E+00	-4,06E+01
PENRE	[MJ]	3,73E+02	1,33E+02	4,15E+01	5,75E+01	2,15E+01	0,00E+00	1,10E+01	0,00E+00	1,83E-02	6,70E+00	3,36E+01	0,00E+00	-1,03E+02
PENRM	[MJ]	5,50E+01	0,00E+00	0,00E+00	0,00E+00	-2,14E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-3,36E+01	0,00E+00	0,00E+00
PENRT	[MJ]	4,28E+02	1,33E+02	4,15E+01	5,75E+01	1,83E-02	0,00E+00	1,10E+01	0,00E+00	1,83E-02	6,70E+00	0,00E+00	0,00E+00	-1,03E+02
SM	[kg]	8,44E+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
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
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
FW	[m3]	3,11E-01	2,13E-02	7,18E-02	8,52E-03	3,86E-03	0,00E+00	2,76E-02	0,00E+00	6,84E-05	9,93E-04	1,93E-02	0,00E+00	-1,00E-01
Caption	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water													

Waste categories and output flows per Tres 282x110x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
HWD	[kg]	3,98E+00	1,50E-01	1,84E-01	6,29E-02	6,41E-02	0,00E+00	2,03E-02	0,00E+00	3,57E-05	7,33E-03	6,15E-01	0,00E+00	-7,85E-02
NHWD	[kg]	9,65E+01	1,61E+00	1,71E+01	6,96E-01	4,88E+00	0,00E+00	1,55E+00	0,00E+00	3,82E-04	8,12E-02	6,83E+01	0,00E+00	-7,92E-01
RWD	[kg]	7,76E-04	5,27E-05	9,40E-05	2,04E-05	5,26E-07	0,00E+00	7,85E-06	0,00E+00	9,45E-08	2,38E-06	2,35E-05	0,00E+00	-1,39E-04
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,11E+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
MFR	[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
MER	[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
EEE	[MJ]	0,00E+00	0,00E+00	2,85E+01	0,00E+00	1,01E+01	0,00E+00	2,84E-01	0,00E+00	0,00E+00	0,00E+00	1,10E+02	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	6,19E+01	0,00E+00	2,01E+01	0,00E+00	5,54E-01	0,00E+00	0,00E+00	0,00E+00	2,51E+02	0,00E+00	0,00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy													

Tres Ø150x74

Core environmental impacts per Tres Ø150x74														
Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	-1,14E+02	7,10E+00	3,79E+01	3,05E+00	3,90E+01	0,00E+00	3,63E-01	0,00E+00	1,24E-03	3,43E-01	6,52E+01	0,00E+00	-4,26E+00
GWP-fossil	kg CO2 eq.	1,79E+01	7,09E+00	3,66E+00	3,04E+00	1,67E+00	0,00E+00	3,63E-01	0,00E+00	1,16E-03	3,43E-01	5,13E+00	0,00E+00	-4,19E+00
GWP-biogenic	kg CO2 eq.	-1,32E+02	5,22E-03	3,43E+01	2,11E-03	3,73E+01	0,00E+00	8,97E-05	0,00E+00	7,27E-05	2,38E-04	6,01E+01	0,00E+00	-6,20E-02
GWP-luluc	kg CO2 eq.	5,30E-02	2,60E-03	5,40E-04	1,01E-03	3,83E-05	0,00E+00	2,13E-04	0,00E+00	4,93E-06	1,14E-04	5,66E-04	0,00E+00	-4,36E-03
ODP	kg CFC 11 eq.	3,44E-07	1,42E-07	4,23E-08	6,05E-08	1,78E-09	0,00E+00	6,59E-07	0,00E+00	2,49E-11	6,82E-09	4,37E-08	0,00E+00	-1,57E-07
AP	mol H+ eq.	1,03E-01	1,63E-02	1,12E-02	6,34E-03	1,18E-03	0,00E+00	1,36E-03	0,00E+00	6,98E-06	7,15E-04	1,05E-02	0,00E+00	-8,31E-03
EP-freshwater	kg P eq.	7,36E-03	5,21E-04	8,73E-04	2,06E-04	2,41E-05	0,00E+00	7,41E-05	0,00E+00	8,54E-07	2,32E-05	8,83E-04	0,00E+00	-7,70E-04
EP-marine	kg N eq.	2,02E-02	4,21E-03	3,33E-03	1,52E-03	6,02E-04	0,00E+00	2,60E-04	0,00E+00	1,26E-06	1,72E-04	4,34E-03	0,00E+00	-1,97E-03
EP-terrestrial	mol N eq.	1,87E-01	4,55E-02	3,29E-02	1,64E-02	5,54E-03	0,00E+00	3,20E-03	0,00E+00	1,51E-05	1,85E-03	4,21E-02	0,00E+00	-2,23E-02
POCP	kg NMVOC eq.	7,50E-02	2,67E-02	9,95E-03	1,05E-02	1,41E-03	0,00E+00	1,33E-03	0,00E+00	3,78E-06	1,19E-03	1,30E-02	0,00E+00	-9,29E-03
ADPm	kg Sb eq.	1,20E-04	2,40E-05	2,12E-05	1,01E-05	3,78E-07	0,00E+00	2,29E-06	0,00E+00	3,66E-08	1,14E-06	8,01E-06	0,00E+00	-3,20E-05
ADPF	MJ	1,01E+02	1,01E+02	3,27E+01	4,28E+01	1,05E+00	0,00E+00	4,69E+00	0,00E+00	1,87E-02	4,83E+00	2,67E+01	0,00E+00	-6,69E+01
WDPA(1)	m3 world eq. dep.	2,78E+01	1,08E+00	2,09E-01	2,09E-01	2,81E-01	0,00E+00	8,67E-02	0,00E+00	2,10E-03	2,36E-02	1,49E+00	0,00E+00	-1,86E+00
Disclaimer	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.													

Additional environmental impacts per Tres Ø150x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
[Disease incidence]		1,25E-06	5,35E-07	8,71E-08	2,24E-07	1,01E-08	0,00E+00	1,60E-08	0,00E+00	4,58E-11	2,53E-08	1,22E-07	0,00E+00	-5,25E-08
IRP (2)	[kBq U235 eq.]	2,07E+00	1,52E-01	2,01E-01	5,56E-02	2,12E-03	0,00E+00	1,81E-02	0,00E+00	4,15E-04	6,26E-03	6,40E-02	0,00E+00	-3,66E-01
ETP-fw (1)	[CTUe]	3,34E+02	2,78E+01	1,30E+01	1,17E+01	5,69E+00	0,00E+00	1,83E+00	0,00E+00	7,92E-03	1,31E+00	4,06E+01	0,00E+00	-9,36E+00
HTP-c (1)	[CTUh]	5,69E-07	5,03E-08	1,71E-08	2,16E-08	1,59E-09	0,00E+00	1,49E-09	0,00E+00	5,41E-12	2,44E-09	2,17E-08	0,00E+00	-9,82E-09
HTP-nc (1)	[CTUh]	2,54E-07	6,48E-08	7,65E-08	2,77E-08	1,38E-08	0,00E+00	3,13E-09	0,00E+00	3,89E-11	3,13E-09	9,31E-08	0,00E+00	-3,66E-08
SOQ (1)	-	1,41E+03	6,87E+01	7,02E+00	2,59E+01	3,71E-01	0,00E+00	1,29E+00	0,00E+00	3,26E-02	2,92E+00	4,42E+00	0,00E+00	-2,81E+01
Disclaimer	PM = Particulate Matter emissions; IRP = Ionizing radiation - human health; ETP-fw = Eco toxicity - freshwater; HTP-c = Human toxicity - cancer effects; HTP-nc = Human toxicity - non cancer effects; SOQ = Soil Quality													
Disclaimer	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator. (2) This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.													

Resource use per Tres Ø150x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PERE	[MJ]	2,73E+02	1,94E+00	4,31E+02	7,35E-01	5,47E+01	0,00E+00	3,22E-01	0,00E+00	2,88E-02	8,29E-02	6,95E+02	0,00E+00	-2,44E+01
PERM	[MJ]	1,15E+03	0,00E+00	-4,02E+02	0,00E+00	-5,47E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-6,95E+02	0,00E+00	0,00E+00
PERT	[MJ]	1,42E+03	1,94E+00	2,92E+01	7,35E-01	2,88E-02	0,00E+00	3,22E-01	0,00E+00	2,88E-02	8,29E-02	2,44E+00	0,00E+00	-2,44E+01
PENRE	[MJ]	2,64E+02	9,18E+01	2,14E+01	3,88E+01	2,15E+01	0,00E+00	6,29E+00	0,00E+00	1,83E-02	4,38E+00	2,44E+01	0,00E+00	-6,32E+01
PENRM	[MJ]	4,59E+01	0,00E+00	0,00E+00	0,00E+00	-2,14E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,44E+01	0,00E+00	0,00E+00
PENRT	[MJ]	3,10E+02	9,18E+01	2,14E+01	3,88E+01	1,83E-02	0,00E+00	6,29E+00	0,00E+00	1,83E-02	4,38E+00	0,00E+00	0,00E+00	-6,32E+01
SM	[kg]	7,88E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
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
FW	[m3]	2,26E-01	1,47E-02	4,06E-02	5,75E-03	3,86E-03	0,00E+00	1,58E-02	0,00E+00	6,84E-05	6,49E-04	1,31E-02	0,00E+00	-6,01E-02
Disclaimer	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water													

Waste categories and output flows per Tres Ø150x74														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
HWD	[kg]	2,44E+00	1,04E-01	1,97E-01	4,25E-02	6,41E-02	0,00E+00	1,17E-02	0,00E+00	3,57E-05	4,79E-03	4,22E-01	0,00E+00	-4,77E-02
NHWD	[kg]	6,32E+01	1,15E+00	2,38E+01	4,71E-01	4,88E+00	0,00E+00	8,87E-01	0,00E+00	3,82E-04	5,31E-02	4,43E+01	0,00E+00	-4,81E-01
RWD	[kg]	5,29E-04	3,78E-05	4,96E-05	1,38E-05	5,26E-07	0,00E+00	4,50E-06	0,00E+00	9,45E-08	1,56E-06	1,69E-05	0,00E+00	-8,37E-05
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,11E+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
MFR	[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
MER	[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
EEE	[MJ]	0,00E+00	0,00E+00	4,06E+01	0,00E+00	1,01E+01	0,00E+00	1,63E-01	0,00E+00	0,00E+00	0,00E+00	7,22E-01	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	8,83E+01	0,00E+00	2,01E+01	0,00E+00	3,18E-01	0,00E+00	0,00E+00	0,00E+00	1,67E-02	0,00E+00	0,00E+00
Disclaimer	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy													

Tres Ø150x90

Core environmental impacts per Tres Ø150x90														
Indicator	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	-1,14E+02	7,27E+00	3,80E+01	3,09E+00	3,90E+01	0,00E+00	3,63E-01	0,00E+00	1,24E-03	3,49E-01	6,62E+01	0,00E+00	-4,44E+00
GWP-fossil	kg CO2 eq.	1,84E+01	7,26E+00	3,74E+00	3,09E+00	1,67E+00	0,00E+00	3,63E-01	0,00E+00	1,16E-03	3,49E-01	5,14E+00	0,00E+00	-4,37E+00
GWP-biogenic	kg CO2 eq.	-1,32E+02	5,32E-03	3,43E+01	2,14E-03	3,73E+01	0,00E+00	8,97E-05	0,00E+00	7,27E-05	2,42E-04	6,10E+01	0,00E+00	-6,51E-02
GWP-luluc	kg CO2 eq.	5,45E-02	2,66E-03	5,51E-04	1,03E-03	3,83E-05	0,00E+00	2,13E-04	0,00E+00	4,93E-06	1,16E-04	5,69E-04	0,00E+00	-4,58E-03
ODP	kg CFC 11 eq.	3,50E-07	1,45E-07	4,35E-08	6,15E-08	1,78E-09	0,00E+00	6,59E-07	0,00E+00	2,49E-11	6,94E-09	4,38E-08	0,00E+00	-1,63E-07
AP	mol H+ eq.	1,05E-01	1,67E-02	1,14E-02	6,44E-03	1,18E-03	0,00E+00	1,36E-03	0,00E+00	6,98E-06	7,27E-04	1,07E-02	0,00E+00	-8,69E-03
EP-freshwater	kg P eq.	7,56E-03	5,33E-04	9,07E-04	2,09E-04	2,41E-05	0,00E+00	7,41E-05	0,00E+00	8,54E-07	2,38E-05	8,89E-04	0,00E+00	-8,07E-04
EP-marine	kg N eq.	2,08E-02	4,32E-03	3,39E-03	1,55E-03	6,02E-04	0,00E+00	2,60E-04	0,00E+00	1,26E-06	1,75E-04	4,40E-03	0,00E+00	-2,05E-03
EP-terrestrial	mol N eq.	1,92E-01	4,67E-02	3,35E-02	1,67E-02	5,54E-03	0,00E+00	3,20E-03	0,00E+00	1,51E-05	1,88E-03	4,27E-02	0,00E+00	-2,33E-02
POCP	kg NMVOC eq.	7,70E-02	2,74E-02	1,01E-02	1,07E-02	1,41E-03	0,00E+00	1,33E-03	0,00E+00	3,78E-06	1,21E-03	1,31E-02	0,00E+00	-9,69E-03
ADPm	kg Sb eq.	1,23E-04	2,45E-05	2,18E-05	1,03E-05	3,78E-07	0,00E+00	2,29E-06	0,00E+00	3,66E-08	1,16E-06	8,03E-06	0,00E+00	-3,36E-05
ADPF	MJ	2,84E+02	1,04E+02	3,38E+01	4,35E+01	1,05E+00	0,00E+00	4,69E+00	0,00E+00	1,87E-02	4,91E+00	2,68E+01	0,00E+00	-6,97E+01
WDPA(1)	m3 world eq. dep.	1,04E+01	5,38E-01	1,09E+00	2,13E-01	2,81E-01	0,00E+00	8,67E-02	0,00E+00	2,10E-03	2,40E-02	1,51E+00	0,00E+00	-1,95E+00
Caption	GWP-total = Global Warming Potential - total; 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 = Ozone Depletor; AP = Acidification; EP-freshwater = Eutrophication - aquatic freshwater; EP-marine = Eutrophication - aquatic marine; EP-terrestrial = terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential - minerals and metals; ADPF = Abiotic Depletion Potential - fossil fuels; WDP = water use													
Disclaimer	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.													

Additional environmental impacts per Tres Ø150x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PM [Disease incidence]		1,29E-06	5,51E-07	8,81E-08	2,28E-07	1,01E-08	0,00E+00	1,60E-08	0,00E+00	4,58E-11	2,57E-08	1,23E-07	0,00E+00	-5,49E-08
IRP (2)	[kBq U235 eq.]	2,12E+00	1,55E-01	2,12E-01	5,64E-02	2,12E-03	0,00E+00	1,81E-02	0,00E+00	4,15E-04	6,37E-03	6,41E-02	0,00E+00	-3,84E-01
ETP-fw (1)	[CTUh]	3,44E+02	2,84E+01	1,32E+01	1,18E+01	5,69E+00	0,00E+00	1,83E+00	0,00E+00	7,92E-03	1,34E+00	4,08E+01	0,00E+00	-9,79E+00
HTP-c (1)	[CTUh]	5,98E-07	5,14E-08	1,72E-08	2,19E-08	1,59E-09	0,00E+00	1,49E-09	0,00E+00	5,41E-12	2,48E-09	2,19E-08	0,00E+00	-1,00E-08
HTP-nc (1)	[CTUh]	2,62E-07	6,65E-08	7,75E-08	2,82E-08	1,38E-08	0,00E+00	3,13E-09	0,00E+00	3,89E-11	3,18E-09	9,44E-08	0,00E+00	-3,83E-08
SQP (1)		1,51E+03	7,12E+01	7,18E+00	2,63E+01	3,71E+01	0,00E+00	1,29E+00	0,00E+00	3,26E-02	2,97E+00	4,48E+00	0,00E+00	-2,95E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation - human health; ETP-fw = Eco toxicity - freshwater; HTP-c = Human toxicity - cancer effects; HTP-nc = Human toxicity - non cancer effects; SQP = Soil Quality													
Disclaimers	(1) The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator. (2) This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.													

Resource use per Tres Ø150x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PERE	[MJ]	2,92E+02	1,98E+00	4,32E+02	7,47E-01	5,47E+01	0,00E+00	3,22E-01	0,00E+00	2,88E-02	8,43E-02	7,05E+02	0,00E+00	-2,56E+01
PERM	[MJ]	1,16E+03	0,00E+00	-4,02E+02	0,00E+00	-5,47E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-7,05E+02	0,00E+00	0,00E+00
PERT	[MJ]	1,45E+03	1,98E+00	2,93E+01	7,47E-01	2,88E-02	0,00E+00	3,22E-01	0,00E+00	2,88E-02	8,43E-02	0,00E+00	0,00E+00	-2,56E+01
PENRE	[MJ]	2,70E+02	9,41E+01	2,25E+01	3,94E+01	2,15E+01	0,00E+00	6,29E+00	0,00E+00	1,83E-02	4,45E+00	2,44E+01	0,00E+00	-6,58E+01
PENRM	[MJ]	4,59E+01	0,00E+00	0,00E+00	0,00E+00	-2,14E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,44E+01	0,00E+00	0,00E+00
PENRT	[MJ]	3,15E+02	9,41E+01	2,25E+01	3,94E+01	1,83E-02	0,00E+00	6,29E+00	0,00E+00	1,83E-02	4,45E+00	0,00E+00	0,00E+00	-6,58E+01
SM	[kg]	7,88E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
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
FW	[m3]	2,30E-01	1,51E-02	4,23E-02	5,84E-03	3,86E-03	0,00E+00	1,58E-02	0,00E+00	6,84E-05	6,60E-04	1,32E-02	0,00E+00	-6,30E-02
Caption	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water													

Waste categories and output flows per Tres Ø150x90														
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
HWD	[kg]	2,54E+00	1,07E-01	1,98E-01	4,31E-02	6,41E-02	0,00E+00	1,17E-02	0,00E+00	3,57E-05	4,87E-03	4,26E-01	0,00E+00	-4,99E-02
NHWD	[kg]	6,51E+01	1,17E+00	2,38E+01	4,78E-01	4,88E+00	0,00E+00	8,87E-01	0,00E+00	3,82E-04	5,40E-02	4,51E-01	0,00E+00	-5,03E-01
RWD	[kg]	5,41E-04	3,86E-05	5,21E-05	1,40E-05	5,26E-07	0,00E+00	4,50E-06	0,00E+00	9,45E-08	1,58E-06	1,69E-05	0,00E+00	-8,77E-05
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,11E+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
MFR	[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
MER	[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
EEF	[MJ]	0,00E+00	0,00E+00	4,06E+01	0,00E+00	1,01E+01	0,00E+00	1,63E-01	0,00E+00	0,00E+00	0,00E+00	7,33E-01	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	8,83E+01	0,00E+00	2,01E+01	0,00E+00	3,18E-01	0,00E+00	0,00E+00	0,00E+00	1,69E+02	0,00E+00	0,00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEF = Exported electrical energy; EET = Exported thermal energy													

Biogenic carbon content at catory gate

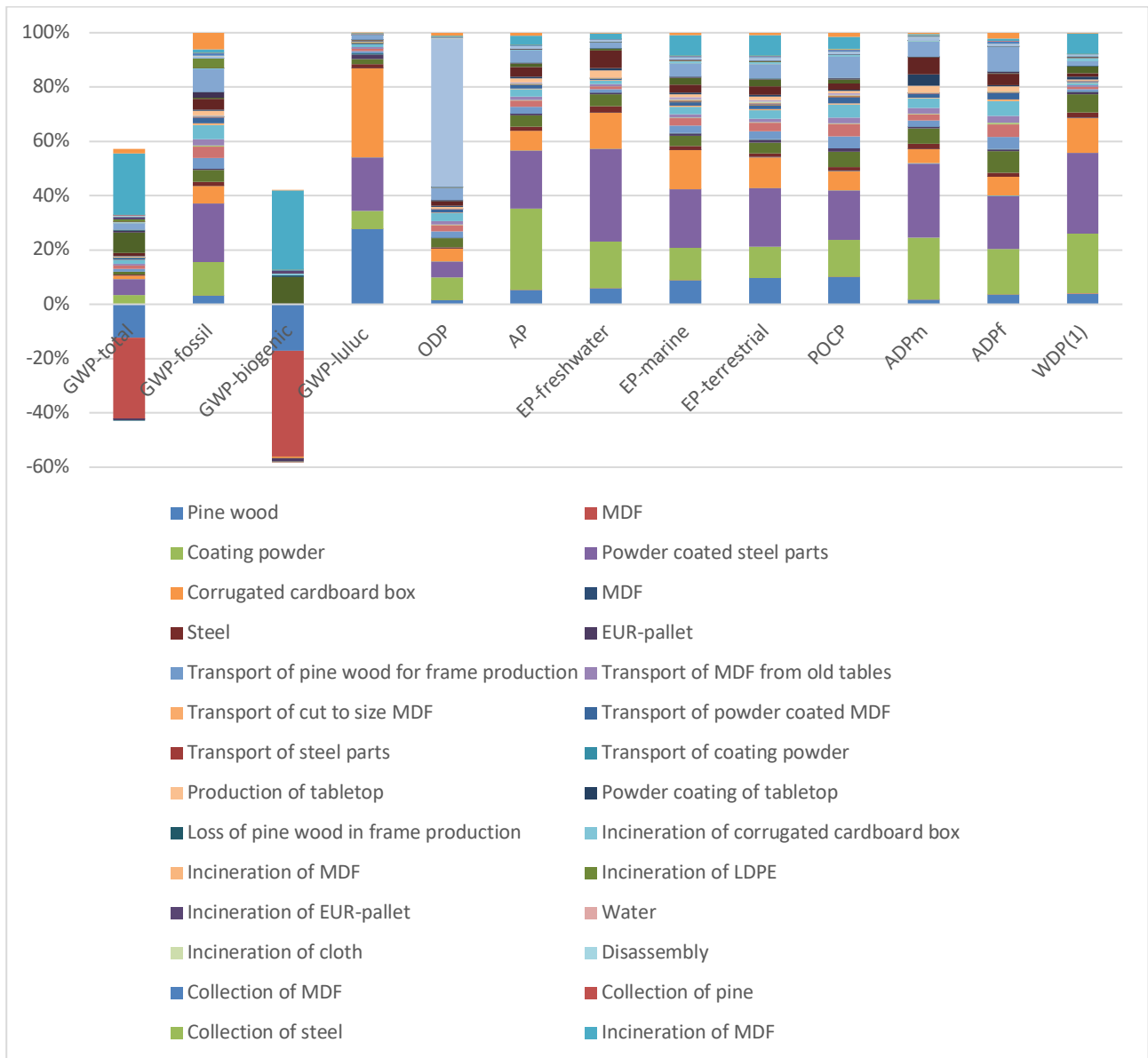
		Biogenic carbon content per:							
		141x110x74	141x110x90	212x110x74	212x110x90	282x110x74	282x110x90	Ø150x74	Ø150x90
Parameter	Unit	At the factory gate							
Biogenic carbon content in product	[kg C]	14,11	14,43	19,70	20,02	24,63	24,95	16,40	16,65
Biogenic carbon content in accompanying packaging	[kg C]	10,21	10,21	10,21	10,21	10,21	10,21	10,21	10,21
Note		1 kg biogenic carbon is equivalent to 44/12 kg of CO ₂							

Additional information

LCA interpretation

The figure below shows a contribution analysis of the Tres 212x110x74. The different colors represent the various raw materials and processes, and the size of each color on the bar indicates the significance of the raw material or process for each environmental impact category. The figure is a 100% stacked chart, and therefore does not express the absolute size of the impact of the different environmental impact categories, but rather the relative size, i.e., the percentage contribution of the various raw materials or processes to the different environmental impact categories.

Overall, it is the production of powder coated steel parts that contributes the most to the majority of impact categories. Out of 13 impact categories, the production of powder coated steel parts is the largest contributor to 8 of them (GWP-fossil, EP-freshwater, EP-marine, EP-terrestrial, POCP, ADPm, ADPf and WDP). For the remaining impact categories, there is considerable variation in which raw materials and processes contribute the most. The production of corrugated cardboard boxes contributes the most to GWP-luluc, the production of cloth is the largest contributor to ODP, and the production of coating powder contributes the most to AP.



Technical information on scenarios

Transport to the building site (A4)

	141x110x74	141x110x90	212x110x74	212x110x90	282x110x74	282x110x90	Ø150x74	Ø150x90	
Scenario information	Value								Unit
Fuel type	Diesel								-
Vehicle type	transport, freight, lorry 16-32 metric ton, EURO6								-
Transport distance	333								km
Capacity utilisation (including empty runs)	24,67								%
Gross density of products transported	-								kg/m ³

Installation of the product in the building (A5)

	141x110x74	141x110x90	212x110x74	212x110x90	282x110x74	282x110x90	Ø150x74	Ø150x90	
Scenario information	Value								Unit
Ancillary materials	0,00								kg
Water use	0,00								m ³
Other resource use	0,00								kg
Energy type and consumption	0,01								kWh
Waste materials	4,63								kg
Output materials	0,00								kg
Direct emissions to air, soil or water	0,00								kg

Reference service life

RSL information		Unit
Reference service life		15 Years
Declared product properties	Materials: Powder coated MDF, pine wood, steel.	As appropriate
Design application parameters	Assembled with a handheld drill.	As appropriate
Assumed quality of work	-	As appropriate
Outdoor environment	No	As appropriate
Indoor environment	Yes	As appropriate
Usage conditions	Daily use	As appropriate
Maintenance	Cleaning of tabletop with a cloth and luke warm soap water.	As appropriate

Use (B1-B7)

B2 - Maintenance									
		141x110x74	141x110x90	212x110x74	212x110x90	282x110x74	282x110x90	Ø150x74	Ø150x90
Maintenance process		Cleaning of tabletop							
Maintenance cycles per year		52,14	52,14	52,14	52,14	52,14	52,14	52,14	52,14
Ancillary materials for maintenance (specify which)	Polyester [kg]	0,04	0,04	0,05	0,05	0,07	0,07	0,04	0,04
Waste materials resulting from maintenance (specify which)	Polyester [kg]	0,04	0,04	0,05	0,05	0,07	0,07	0,04	0,04
Net freshwaterconsumption during maintenance [kg]		12,05	12,05	18,07	18,07	24,09	24,09	13,81	13,81
Energy input during maintenance		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

End of life (C1-C4)

	141x110x74	141x110x90	212x110x74	212x110x90	282x110x74	282x110x90	Ø150x74	Ø150x90	
Scenario information	Value								Unit
Collected seperately	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	g
Collected with mixed waste	37.85	38.77	52.40	53.28	65.72	66.58	43.49	44.23	g
For reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	g
For recycling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	g
For energy recovery	37.85	38.77	52.40	53.28	65.72	66.58	43.49	44.23	g
For final disposal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	g
Assumptions for scenario development	100% incineration								

Re-use, recovery and recycling potential (D)

	141x110x74	141x110x90	212x110x74	212x110x90	282x110x74	282x110x90	Ø150x74	Ø150x90	
Scenario information/ material	Value								Unit
Displaced electricity, modelled as DK market mix	32,15	23,44	26,02	27,42	27,28	28,68	13,24	14,36	MJ
Displaced thermal energy, modelled as natural gas	72,58	55,31	64,56	67,39	71,17	74,00	38,47	40,74	MJ

Indoor air

The EPD does not give information on release of dangerous substances to indoor air because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.1.

Soil and water

The EPD does not give information on release of dangerous substances to soil and water because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.2.

References

Publisher	 epddanmark www.epddanmark.dk <small>Template version 2023.2</small>
Programme operator	<i>Danish Technological Institute Gregersensvej DK-2630 Taastrup www.teknologisk.dk</i>
LCA-practitioner	<i>Jonas Bak Christensen Quantified Impacts ApS Gammel Køge Landevej 55 DK-2500 Valby www.quantifiedimpacts.com</i>
LCA software /background data	<i>openLCA 2.0.4 Ecoinvent v3.10 EN 15804 EN 15804 reference package 3.1</i>
3rd party verifier	<i>David Althoff Palm Dalemarken AB david@dalemarken.dk www.dalemarken.dk</i>

General programme instructions

General Programme Instructions, version 2.0, spring 2020
www.epddanmark.dk

EN 15804

DS/EN 15804 + A2:2019 - "Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products"

PCR for furniture

NPCR 026:2022 – "Part B for Furniture (references to EN 15804 +A2)"

EN 15942

DS/EN 15942:2011 – " Sustainability of construction works – Environmental product declarations – Communication format business-to-business"

ISO 14025

DS/EN ISO 14025:2010 – " Environmental labels and declarations – Type III environmental declarations – Principles and procedures"

ISO 14040

DS/EN ISO 14040:2008 – “ Environmental management – Life cycle assessment – Principles and framework”

ISO 14044

DS/EN ISO 14044:2008 – “ Environmental management – Life cycle assessment – Requirements and guidelines”