





# ENVIRONMENTAL PRODUCT DECLARATION

In accordance with EN 15804 and ISO 14025

Quick-Lock® 24/38 HE



 $\label{programme:program$ 

Programme operator: EPD International AB

Version: 1.0

Registration number: S-P-05285

Date of publication (issue): 01/02/2022 Date of revision: 09/12/2021 Date of validity: 09/12/2026

In accordance with ISO 14025, ISO 21930 and EN 15804





# **Summary Environmental product declaration**

Content summary	
Verified by (external third-party verifier)	Martin Erlandsson, IVL Swedish Environmental Research Institute
Programme used	The International EPD System. For more information see www.environdec.com
Registration No	S-P-05285
Owners declaration by	Saint-Gobain API BV P.O Box 1 3840 AA Harderwijk The Netherlands
Declaration as construction products	The products to be verified herein are metallic grid profiles for ceiling suspension systems.  The present environmental product declaration complies with standard ISO 14025 and describes the environmental impact. Its purpose is to promote compatible and sustainable environmental development of related construction methods.  Reference PCR document: EN 15804 as the core PCR + International EPD System Product Category Rules - PCR for constructions products and construction services, Acoustical systems solutions (sub-oriented PCR; appendix to PCR 2012:01) - previously Acoustic ceilings. EPD of construction products may not be comparable if they do not comply with EN 15804.
Validity	09/12/2026
Content of the declaration	This is an environmental product declaration containing environmental information of the product in the family Quick-Lock® 24/38 HE. The values presented in this EPD are represented for the following products: T24/38 HE MB 3600, T24/38 HE CT 300, T24/38 HE CT 600, T24/38 HE CT 900, T24/38 HE CT 1200, T24/38 HE CT 1500, T24/38 HE CT 1800, T24/38 HE CT 2400  Supplemental product information can be found at www.api.nl
Issued date	09/12/2021

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## **Product description**

#### Product description and description of use:

This Environmental Product Declaration (EPD) describes the environmental impact of 1 linear meter (1 lm) of installed steel profile with the intended use to suspend acoustic ceiling tiles.

The production site of Saint-Gobain API (The Netherlands) manufactures ceiling grid systems in different sizes. Cold rolled steel is shaped into a "body" through a process called roll forming. A cap of steel ("capping") is added on the body to make the grid visually appealing. Multiple holes are then punched in the body to allow installation. The finished grids are then packed in cardboard boxes.

The grids provide excellent mechanical characteristics to suspend acoustic ceiling tiles, which contribute to a better health by their sound absorption capabilities. There is no maintenance needed for the grids except for normal room surface cleaning and there is no ageing, hence the grid system can last for the building lifetime.

#### Description of the main product components and materials for 1 m of product:

Parameter	Value
Product height	38 mm
Product width	24 mm
Hot-dip galvanized steel	100wt%
Plastic wrapping	Og

	Total weights										
	T24/38 HE MB   T24/38 HE CT   T24/38 HE CT   T24/38 HE CT   T24/38 HE CT										
Product	3600	300	600	900	1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 2400			
Total weight [kg]	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4			

All raw materials contributing more than 5% to any environmental impact are listed in the table above. The profiles are free from substances of very high concern (SVHC). The product contains no substances from the REACH Candidate list (of 13.07.2021).

If there in future occur production changes that generate an increased impact larger than 10% the EPD will be updated and re-verified.

## Other environmental indicators

Regarding the indoor environment, the Quick-Lock $^{\circ}$  24/38 HE products are certified for or fulfil regulations according to the following table:

### **Certificate and Regulations**

French VOC A+

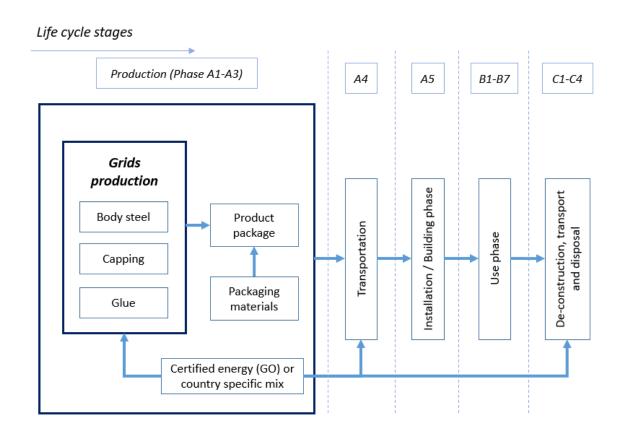
# LCA calculation information

Declared unit	1 lm of installed steel profile
System boundaries	Cradle to grave: Mandatory stages = A1-3, A4-5, B1-7, C1-4 and optional stage = D This EPD covers the environmental impact only of the ceiling profiles.
Reference Service Life (RSL)	50 years
	The use of cut-off criterion on mass inputs and primary energy at the unit process level (1%) and at the information module level (5%).  Flows related to human activities such as employee transport are
Cu+off rules	excluded.  Biogenic carbon has not been included in calculations.
	The construction of plants, production of machines and transportation systems are excluded since the related flows are supposed to be negligible compared to the production of the building product when compared at these systems lifetime level.
Allocations	Allocation criteria are based on mass.
	For A1-A3: Global
Geographical coverage and time period	For A4 : European covering (2019)

According to EN 15804, EPD of construction products might not be comparable if they do not comply with this standard. According to ISO 21930, EPD's might not be comparable if they are from different EPD administrating schemes.

# Life Cycle stages

#### Flow diagram of the Life Cycle



### Product stage, A1-A3

#### Description of the stage:

The product stage of the profiles is divided into 3 modules: A1 "Raw material and supply", A2 "Transport to the manufacturer" and A3 "Manufacturer". The aggregation of the modules A1, A2 and A3 is a possibility considered by the EN 15 804 standard. This rule is applied in this EPD.

#### A1 Raw material supply

This module takes into account the extraction and processing of all raw materials and energy which occur upstream to the studied manufacturing process.

Specifically, the steel material supply covers production of the cold rolled steel and eventual coating. Packaging production and glue are also accounted in the calculation. All electricity is taken account for in country specific mix.

#### A2 Transport to the manufacturer

The raw materials are transported to the manufacturing site. In our case, the modelling includes: road, boat or train transportations (average values) of each raw material.

#### A3 Manufacturina

The profiles are manufactured on a continuous process. The steel coils are essentially unwrapped, shaped and cut to the desired length.

Manufacturing covers all processes linked to production, which comprises various related operations besides on-site activities such as, packaging and internal transportation. The manufacturing process also yields data on the combustion of refinery products, such as natural gas, diesel and gasoline, related to the production process.

The environmental profile of these energy carriers is modelled for local conditions. Packaging-related flows in the production process and all up-stream packaging are included in the manufacturing module, i.e. wooden pallets, cardboard and PE-film. Apart from production of packaging material, the supply and transport of packaging material are also considered in the LCA model. They are reported and allocated to the module where the packaging is applied. Data on packaging waste created during this step is then generated. It is assumed that packaging waste generated in the course of production and up-stream processes is 100% collected and either recycled or incinerated with energy recovery, related to material and quality, in ratios according to the local material handling companies.

### Construction process stage, A4-A5

#### Description of the stage:

The construction process is divided into 2 modules: A4 "Transport to the building site" and A5 "Installation in the building.

#### Description of scenarios and additional technical information:

#### A4 Transport to the building site

This module includes transport from the production gate to the building site. Transport is calculated on the basis of a scenario with the parameters described in the following table.

Parameter	Value
Fuel type, consumption of fuel and vehicle or vehicle type used for transport	Average truck trailer with a 24t payload, diesel consumption 31.7 litres for 100 km
Distance	630 km (based on transports in 2019)
Capacity utilisation (including empty returns)	90% of the capacity in volume 100% of empty returns
Bulk density of transported products (if available)	0.1-0.8 kg/m
Volume capacity utilisation factor (if available)	0.45

The transport distance has been calculated from a European average transport for API in 2019 from the parameters in the table above.

#### A5:1 Installation in the building

This module includes waste of products during the implementation, i.e. the additional production processes to compensate the loss and the waste processing which occur in this stage.

Scenarios used for quantity of product wastage and waste processing are:

Parameter	Value
Waste of materials on the building site before waste processing, generated by the product's installation	5%
Output materials (specified by type) as results of waste processing at the building site e.g. of collection for recycling,	Packaging waste is 100 % collected and modelled as material for recycling
for energy recovering, disposal	Grid waste is recycled.

#### A5:2 Energy usage

As a general figure the time to install 1 m<sup>2</sup> ceiling is considered to be 20 minutes. During this time the installer is considered to use handheld appliances for about 5% of this time which in this case results in 1 minute. A handheld device such as a cordless screwdriver is considered to have a power of 0.7 kilowatt. Therefore, in one minute it will consume a total energy of 0.7\*60 = 4.2 kilojoule = 0.0042 MJ, per m<sup>2</sup> ceiling. In this context it is a negligible contribution and will not be part of the LCA calculation (lower than 0.1% of the total energy consumption).

### Use stage (excluding potential savings), B1-B7

#### Description of the stage:

The use stage is divided into 7 modules, B1 "Use", B2 "Maintenance", B3 "Repair", B4 "Replacement", B5 "Refurbishment", B6 "Operational energy use", B7 "Operational water use"

#### Description of scenarios and additional technical information:

Once installation is complete, no actions or technical operations are required during the use stages until the end of life stage. Therefore, acoustic ceiling panels have no impact (excluding potential energy savings) on this stage.

#### End-of-life stage C1-C4

#### Description of the stage:

The end-of life stage is divided into 4 modules; C1 "De-construction, demolition", C2 "Transport to waste processing", C3 "Waste processing for reuse, recovery and/or recycling", C4 "Disposal".

#### Description of scenarios and additional technical information:

#### C1, De-construction, demolition

The dismantling of grid system takes part during renovation or demolition of the building. In this case, the environmental impact is assumed to be very small and can be neglected.

#### C2, Transport to waste processing

The model for transportation (see A4, Transportation to the building site) is applied.

#### C3, Waste processing for reuse, recovery and/or recycling;

The product is considered to be recycling.

#### C4, Disposal;

The product is assumed to be 100% recycled.

Parameter	Value/description
Collection process specified by type	O,1 - O,8 kg of steel grid (collected as sorted metal)
Recovery system specified by type	Grid collected as sorted metal
Disposal specified by type	0,2 - 0,35 kg of grid to recycling
Assumptions for scenario development (e.g. transportation)	Average truck trailer with a 24t payload, diesel consumption 31.7 litres for 100 km  50 km (distance to landfill)

### Reuse/recovery/recycling potential, D

Not declared.

## **LCA** results

LCA model, aggregation of data and environmental impact are calculated through the GaBi Professional software. Secondary data is mainly taken from Ecoinvent 3.6 with some GaBi datasets.

Raw materials and energy consumption, as well as transport distances have been taken directly from the manufacturing plants of Saint-Gobain API in 2019.

Modules declared, geographical scope, share of specific data, and variation between sites (last two percentages given in GWP indicator) are stated in the following table.

	Pro	duct ph	ase		ruction s phase	Use phase				End of life phase				Resource recovery phase			
	Raw material and supply	Transport to the manufacturer	Manufacturing	Transport to the building site	Installation in the building	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport to waste processing	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	A1	A2	А3	A4	A5	В1	В2	В3	В4	B5	В6	B <i>7</i>	C1	C2	C3	C4	D
Modules declared	Х	Х	Χ	Х	Х	Х	Х	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	MND
Geography	NL, EU, GLO	NL, EU, GLO	NL	EU, GLO	EU, GLO								EU, GLO	EU, GLO	EU, GLO	EU, GLO	-
Specific data		<10 %								-							
Variation sites	_	One site	-							-			-	-			-

Summary of the LCA results are detailed in the tables below.

All results in the EPD are written in logarithmic base of ten. Reading example:  $5.2E \cdot 03 = 5.2 \cdot 10^3 = 0,0052$ .

MND (module not declared), is equal to MNA (module not assessed).

Parar					Environmental im					
	ne te rs		T24/38 HEMB 3600	T24/38 HE CT 300	T24/38 HE CT 600	T24/38 HE CT 900	T24/38 HE CT 1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 2
		A1 - A3 A4	1.09E+00 1.94E-02	1.11E+00 2.02E-02	1.08E+00 2.01E-02	1.09E+00 1.89E-02	1.08E+00 1.92E-02	1.09E+00 1.89E-02	1.08E+00 1.92E-02	1.10E+00 1.93E-02
		A5	5.45E-02	5.54E-02	5.41E-02	5.44E-02	5.37E-02	5.44E-02	5.40E-02	5.47E-02
		B1 - B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>@</b>		C2	1.44E-03	1.44E-03	1.44E-03	1.44E-03	1.44E-03	1.44E-03	1.44E-03	1.44E-03
י		C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Global Warming Potential	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	(GWP) - kg CO <sub>2</sub> equiv/FU	D Total A-C	MND 1.16E+00	MND 1.19E+00	MND 1.16E+00	MND 1.16E+00	MND 1.15E+00	MND 1.16E+00	MND 1.15E+00	MND 1.17E+00
		Total Ac			as refers to the tota	contribution to glob	al warming resulting	g from the emission	of one unit of that g	
			1 505.00	0.705.00			xide, which is assig		1 105 00	1 005 00
		A1 - A3 A4	1.50E-09 4.42E-18	2.72E-09 4.61E-18	2.51E-09 4.58E-18	6.73E-10 4.30E-18	1.07E-09 4.36E-18	7.03E-10 4.31E-18	1.18E-09 4.38E-18	1.32E-09 4.40E-18
		A5	7.51E-11	1.36E-10	1.26E-10	3.37E-11	5.34E-11	3.51E-11	5.90E-11	6.60E-11
		B1-B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+0
2		C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+0
ש		C2	3.27E-19	3.27E-19	3.27E-19	3.27E-19	3.27E-19	3.27E-19	3.27E-19	3.27E-19
	Ozone Depletion (ODP) kg	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+0
	CFC 11 equiv/FU	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+0
		D Total A-C	MND	MND	MND	MND 7.075.10	MND	MND 7 205 10	MND	MND
		TOTAL AAC	1.58E-09	2.86E-09	2.64E-09	7.07E-10	1.12E-09	7.38E-10	1.24E-09	1.39E-09
		A1-A3							caused by the breakdov then catalytically destro	
		A4	2.42E-05 2.63E-05	2.74E-05	2.72E-05	2.56E-05	2.59E-05	2.56E-05	2.60E-05	2.42E-05
		A5	1.21E-04	1.25E-04	1.22E-04	1.19E-04	1.19E-04	1.19E-04	1.19E-04	1.21E-0-
	B1 - B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+C	
		C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+0
Acidification potential (AP) kg SO <sub>2</sub> equiv/FU		C2	1.94E-06	1.94E-06	1.94E-06	1.94E-06	1.94E-06	1.94E-06	1.94E-06	1.94E-0
	Acidification potential (AP)	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+C
	kg SO <sub>2</sub> equiv/FU	C4 D	0.00E+00 MND	0.00E+00 MND	0.00E+00 MND	0.00E+00 MND	0.00E+00 MND	0.00E+00 MND	0.00E+00 MND	0.00E+C
	Total AC	2.57E-03	2.65E-03	2.60E-03	2.52E-03	2.52E-03	2.53E-03	2.53E-03	2.57E-0	
		A1-A3	Acid depositions 3.66E-04				nade environment in used for electricity p		ain sources for emission and transport.	ons of acidifying
				5.79E-06	5.75E-06	5.40E-06	5.48E-06	5.41E-06	5.50E-06	5.53E-0
		A4	5.56E-06							
		A4 A5	1.83E-05	1.96E-05	1.89E-05	1.76E-05	1.76E-05	1.76E-05	1.78E-05	1.82E-0
		A5 B1 - B7	1.83E-05 0.00E+00	1.96E-05 0.00E+00	0.00E+00	0.00E+00	1.76E-05 0.00E+00	0.00E+00	0.00E+00	1.82E-0 0.00E+0
		A5 B1 - B7 C1	1.83E-05 0.00E+00 0.00E+00	1.96E-05 0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	1.82E-0 0.00E+0 0.00E+0
	Futura biomitra and called	A5 B1-B7 C1 C2	1.83E-05 0.00E+00 0.00E+00 4.11E-07	1.96E-05 0.00E+00 0.00E+00 4.11E-07	0.00E+00 0.00E+00 4.11E-07	0.00E+00 0.00E+00 4.11E-07	0.00E+00 0.00E+00 4.11E-07	0.00E+00 0.00E+00 4.11E-07	0.00E+00 0.00E+00 4.11E-07	1.82E-0 0.00E+0 0.00E+0 4.11E-0
<b>)</b>	Eutrophication potential  (FP) kn (PO.) <sup>3</sup> , equiv/FII	A5 B1-B7 C1 C2 C3	1.83E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00	1.82E-0 0.00E+0 0.00E+0 4.11E-0 0.00E+0
<b>y</b>	Eutrophication potential (EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU	A5 B1-B7 C1 C2 C3 C4	1.83E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00	1.82E-0 0.00E+0 0.00E+0 4.11E-0 0.00E+0 0.00E+0
<b>)</b>		A5 B1-B7 C1 C2 C3	1.83E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00	1.82E-0 0.00E+0 0.00E+0 4.11E-0 0.00E+0 0.00E+0 MND
		A5 B1-B7 C1 C2 C3 C4 D	1.83E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.91E-04	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.17E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.04E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.75E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.76E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.80E-04	1.82E-0 0.00E+0 0.00E+0 4.11E-0 0.00E+0 0.00E+0 MND
•		A5 B1-B7 C1 C2 C3 C4 D	1.83E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.91E-04	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.17E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.04E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.75E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.76E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.76E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.80E-04	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C 0.00E+C MND 3.89E-0
		A5 B1-B7 C1 C2 C3 C4 D Total AC	1.83E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.91E-04	1.96E.0.5 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 4.17E.04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.04E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.75E-04	0.00E+00 0.00E+00 4.11E:07 0.00E+00 0.00E+00 MND 3.76E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.76E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.80E-04	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C 0.00E+C MND 3.89E-0
,		A5 B1-B7 C1 C2 C3 C4 D Total AC	1.83E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.91E-04	1.96E.0.5 0.00E+00 0.00E+00 4.11E.0.7 0.00E+00 0.00E+00 MND 4.17E.0.4 Excessive enrichm	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.04E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.75E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.76E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.76E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.80E-04	1.82E-0 0.00E+0 0.00E+0 4.11E-0 0.00E+0 MND 3.89E-0
		A5 B1-B7 C1 C2 C3 C4 D Total AC	1.83E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.91E-04	1.96E.0.5 0.00E+00 0.00E+00 4.11E.0.7 0.00E+00 MND 4.17E.04 Excessive enrichm	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.04E-04 ent of waters and co	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.75E-04 onlinental surfaces w	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.76E-04 //ith nutrients, and the	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.76E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.80E-04 se biological effects.	1.82E-0 0.00E+0 0.00E+0 4.11E-0 0.00E+0 MND 3.89E-0 4.10E-0 -7.81E-0 2.05E-0
		A5 B1-B7 C1 C2 C3 C4 D Total AC  A1-A3 A4 A5 B1-B7 C1	1.83E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.91E-04 4.09E-04 -7.86E-06 2.04E-05 0.00E+00	1.96E-0.5 0.00E+0.0 0.00E+0.0 4.11E-0.7 0.00E+0.0 MND 4.17E-0.4 Excessive enrichm 4.17E-0.4 -8.19E-0.6 2.08E-0.5 0.00E+0.0 0.00E+0.0	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.04E-04 ent of waters and column and colum	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.75E-04  4.07E-04 -7.64E-06 2.03E-05 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04 Anth nutrients, and the 4.02E-04 -7.75E-06 2.01E-05 0.00E+00	0.00E+00 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.76E-04 associated adversed adversed adversed adversed adversed according to the control of	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.80E-04 se biological effects. 4.04E-04 -7.78E-06 2.02E-05 0.00E+00	1.82E-0 0.00E+( 0.00E+( 4.11E-0 0.00E+( 0.00E+( MND 3.89E-0 4.10E-0 7.81E-0 0.00E+( 0.00E+(
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone	A5 B1-B7 C1 C2 C3 C4 D Total AC  A1-A3 A4 A5 B1-B7 C1 C2	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 MND 3.91E.04 4.09E.04 4.09E.04 2.04E.05 0.00E+00 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04  Excessive enrichm 4.17E-04 8.19E-06 2.08E-05 0.00E+00 0.00E+00 5.81E-07	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.04E-04 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 -0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.75E-04 2.03E-05 4.07E-04 -7.64E-06 2.03E-05 0.00E+00 -5.81E-07	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MIND 3.76E-04 2.01E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.76E.04 associated adver 4.07E.04 -7.65E.06 2.03E.05 0.00E+00 -5.81E.07	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.80E-04 se biological effects. 4.04E-04 -7.78E-06 2.02E-05 0.00E+00 -5.81E-07	1.82E-0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 MND 3.89E-0 4.10E-0 -7.81E-0 0.00E+0 0.00E+0
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene	A5 B1-B7 C1 C2 C3 C4 D Total AC  A1-A3 A4 A5 B1-B7 C1 C2 C3	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 MND 3.91E.04 4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 Excessive enrichm 4.17E-04 -8.19E-06 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 4.04E-04 ent of waters and c 4.07E-04 -8.13E-04 2.04E-05 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.75E-04 4.07E-04 -7.64E-06 2.03E-05 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04  with nutrients, and the 4.02E-04 -7.75E-06 2.01E-05 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04 4.07E-04 -7.65E-06 2.03E-05 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.80E-04 se biological effects. 4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 0.00E+00	1.82E-0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 MND 3.89E-0 -7.81E-0 2.05E-0 0.00E+0 0.00E+0
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone	A5 B1-B7 C1 C2 C3 C4 D Total AC  A1-A3 A4 A5 B1-B7 C1 C2 C3 C4 C4 C4 C4 C4	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04 4.09E.04 7.86E.06 2.04E.05 0.00E+00 0.00E+00 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.17E-04 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.04E-04 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 3.75E-04  4.07E-04 -7.64E-06 2.03E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04 A0ZE-04 -7.75E-06 2.01E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04 4.07E-04 -7.65E-06 2.03E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.80E-04 4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00	1.82E-0 0.00E+0 4.11E-0 0.00E+0 0.00E+0 0.00E+0 MNDD 3.89E-0 4.10E-0 7.81E-0 0.00E+0 0.00E+0 0.00E+0 0.00E+0
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene	A5 B1-B7 C1 C2 C3 C4 D Total AC  A1-A3 A4 A5 B1-B7 C1 C2 C3	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04 4.09E.04 4.786E.06 2.04E.05 0.00E+00 -5.81E.07 0.00E+00 MND	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 Excessive enrichm 4.17E-04 -8.19E-06 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.04E-04 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.75E-04  antificental surfaces w 4.07E-04 -7.64E-06 2.03E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MNID	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MIND 3.76E-04  //ith nutrients, and the 4.02E-04 -7.75E-06 2.01E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MIND	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04 4.07E-04 -7.65E-06 2.03E-05 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.80E-04 se biological effects. 4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 5.81E-07 0.00E+00 MND	1.82E-C 0.00E+C 4.11E-C 0.00E+C 0.00E+C MND 3.89E-C 4.10E-C -7.81E-C 2.05E-C 0.00E+C 0.00E+C 0.00E+C
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene	A5 B1-B7 C1 C2 C3 C4 D Total AC  A1-A3 A4 A5 B1-B7 C1 C2 C3 C4 D	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 4.21E.04	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 8.19E-06 2.08E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 4.29E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 4.04E-04 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MNID 4.18E-04	0.00E+00 4.11E-07 0.00E+00 MNID 3.75E-04  onlinental surfaces w 4.07E-04 -7.64E-06 2.03E-05 0.00E+00 0.00E+00 4.19E-04 4.19E-04 4.19E-04 4.19E-04 4.19E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MND 3.76E-04 A0ZE-04 -7.75E-06 2.01E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 4.14E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.80E-04 4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C 0.00E+C 0.00E+C MND 4.22E-0
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene	A5 B1-B7 C1 C2 C3 C4 D Total AC C2 C3 C4 A5 D Total AC C5	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 0.00E+00 MND 4.21E.04  Chemical reactions	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 brought about by the second of	0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MND 4.04E-04 ent of waters and c-1 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 -5.81E-07 0.00E+00 MND 4.18E-04	0.00E+00 4.11E-07 0.00E+00 MND 3.75E-04  A.07E-04 4.07E-04 2.03E-05 0.00E+00 0.00E+00 MND 4.19E-04 4.07E-04 2.03E-05 0.00E+00 4.07E-04 2.03E-05 0.00E+00 4.07E-04 2.03E-05 0.00E+00 4.19E-04 4.19E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.76E-04  A:02E-04 A:02E-04 A:02E-04 A:02E-04 A:02E-04 A:02E-04 A:02E-04 A:02E-04 A:04E-05 A:04E-04 A:04E-0	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.76E-04 associated advert 4.07E-04 -7.65E-06 2.03E-05 0.00E+00 0.00E+00 4.17E-04 4.19E-04 h hydrocarbons in 1	0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MND 3.80E-04 se biological effects. 4.04E-04 4.7.78E-06 2.02E-05 0.00E+00 -5.81E-07 0.00E+00 MND 4.16E-04	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C MND 3.89E-0 4.10E-0 0.00E+C 0.00E+C 0.00E+C 0.00E+C 0.00E+C MND 4.22E-0
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene	A5 B1-B7 C1 C2 C3 C4 D Total AC  A1-A3 A4 A5 B1-B7 C1 C2 C3 C4 D	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MNID 3.91E.04 4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.21E.04 Chemical reactions	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04  Excessive enrichm 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.29E-04  brought about by t	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 4.04E-04 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.18E-04	0.00E+00 4.11E-07 0.00E+00 MNID 3.75E-04  onlinental surfaces w 4.07E-04 -7.64E-06 2.03E-05 0.00E+00 0.00E+00 4.19E-04 4.19E-04 4.19E-04 4.19E-04 4.19E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MIND 3.76E-04  with nutrients, and the 4.02E-04 -7.75E-06 2.01E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.14E-04  f nitrogen oxides with otochemical reaction	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.80E-04 se biological effects. 4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.16E-04	1.82E-0 0.00E+4 4.11E-0 0.00E+4 4.11E-0 0.00E+4 MND 3.89E-0 4.10E-0 2.05E-0 0.00E+4
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene	A5 B1-B7 C1 C2 C3 C4 D Total AC C1 C2 C3 C4 A1 A5 A4 A5 C1 C2 C3 C4 D Total AC C1 C4 A1 A5 C1 C4 A1 A5 C4 C4 C4 C4 C4 C4 C4 C5 C4 C4 C5 C4 C4 C5 C5 C4 C5 C5 C4 C5	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 0.00E+00 MND 4.21E.04  Chemical reactions	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 brought about by the second of	0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MND 4.04E-04 ent of waters and c-1 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 -5.81E-07 0.00E+00 MND 4.18E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.75E-04 antinental surfaces w 4.07E-04 -7.64E-06 2.03E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.19E-04 4.19E-04 es sun. The reaction of an example of a ph	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.76E-04  A:02E-04 A:02E-04 A:02E-04 A:02E-04 A:02E-04 A:02E-04 A:02E-04 A:02E-04 A:04E-05 A:04E-04 A:04E-0	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.76E-04 associated advert 4.07E-04 -7.65E-06 2.03E-05 0.00E+00 0.00E+00 4.17E-04 4.19E-04 h hydrocarbons in 1	0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MND 3.80E-04 se biological effects. 4.04E-04 4.7.78E-06 2.02E-05 0.00E+00 -5.81E-07 0.00E+00 MND 4.16E-04	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C 0.00E+C 0.00E+C 0.00E+C 0.00E+C 1.11E-1
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene	A5 B1-B7 C1 C2 C3 A4 A5 B1-B3 A5 B1-	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 0.00E+00 MND 4.21E.04  Chemical reactions	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.17E-04 8.19E-06 2.08E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.29E-04 brought about by t	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 4.04E-04 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 4.18E-04 he light energy of th	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.75E-04  4.07E-04 -7.64E-06 2.03E-05 0.00E+00 0.00E+00 0.00E+00 4.19E-04 4.19E-04 e sun. The reaction o an example of a ph	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.76E-04  4.02E-04 -7.75E-06 2.01E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.581E-07 0.00E+00 0.00E+00 5.14E-06 7.05E-10 5.14E-06 7.05E-10 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.76E-04  4.07E-04 -7.65E-06 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.19E-04 h hydrocarbons in 1 5.20E-06 6.96E-10 2.60E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.80E-04 se biological effects.  4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 0.00E+00 4.16E-04 he presence of sunlig	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C MND 4.22E-0 4.22E-0 4.12E-0 0.00E+C
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources	A5 B1-B7 C1 A4 A5 A4 A5 B1-B7 C1 A5 B1-B7 C1	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 MND 4.21E.04  Chemical reactions  5.20E.06 7.15E-10 2.60E.07 0.00E+00 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 MND 4.29E-04 brought about by t	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.04E-04 ent of waters and c 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 MND 4.18E-04 be light energy of th 5.14E-06 7.40E-10 2.57E-07 0.00E+00 0.00E+00	0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MND 3.76E-04  4.02E-04 -7.75E-06 2.01E-05 0.00E+00 0.00E+00 0.00E+00 4.14E-04 f nitrogen oxides with otochemical reaction 5.14E-06 7.05E-10 2.57E-07 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.76E-04 associated advert 4.07E-04 -7.65E-06 2.03E-05 0.00E+00 MND 4.19E-04 hydrocarbons in 1	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.80E-04 se biological effects. 4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 0.00E+00 MNID 4.16E-04 be presence of sunlig	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C 0.00E+C MND 4.22E-0 4.22E-0 7.11E-1 2.61E-0 0.00E+C
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sh	A5 B1-B7 C2 C3 A4 A5 B1-B7 C1 Torol AC	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 MND 4.21E.04  Chemical reactions 5.20E.06 7.15E.10 2.60E.07 0.00E+00 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 Excessive enrichm 4.17E-04 2.08E-05 0.00E+00 0.00E+00 0.00E+00 4.17E-04 2.08E-05 0.00E+00 4.29E-04 brought about by the second of the second	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 4.04E-04 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 4.18E-04 4.18E-04 5.14E-06 7.40E-10 2.57E-07 0.00E+00 5.28E-11	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.75E-04  antificental surfaces w 4.07E-04 -7.64E-06 2.03E-05 0.00E+00 0.00E+00 MNID 4.19E-04 e sun. The reaction o an example of a ph 5.20E-06 6.95E-10 2.60E-07 0.00E+00 5.28E-11	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.76E-04  Aith nutrients, and the A:02E-04 -7.75E-06 0.00E+00 0.00E+00 0.00E+00 4.14E-04  f nitrogen oxides with otochemical reaction 5.14E-06 7.05E-10 2.57E-07 0.00E+00 0.00E+00 5.81E-07 0.00E+00 5.81E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.14E-06 7.05E-10 2.57E-07 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.76E-04 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.80E-04 se biological effects. 4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 4.16E-04 he presence of sunlig	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C 0.00E+C MND 4.22E-0 MND 4.22E-0 MND 4.22E-0 0.00E+C
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources	A5 B1-B7 C1 C2 C3 A4 A5 A4 A5 A4 A5 C3 C4 D C4 D C4 C4 D C5	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 0.00E+00 4.21E.04  Chemical reactions  5.20E.06 7.15E.10 2.60E.07 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.17E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 4.04E-04 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 4.18E-04 he light energy of th	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.75E-04  4.07E-04 -7.64E-06 2.03E-05 0.00E+00 0.00E+00 0.00E+00 4.19E-04 4.19E-04 e sun. The reaction o an example of a ph	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.76E-04  //ith nutrients, and the 4.02E-04 -/7.75E-06 2.01E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.81E-07 0.00E+00 5.14E-06 7.05E-10 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04  4.07E-04 -7.65E-06 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.19E-04 h hydrocarbons in 1 5.20E-06 6.96E-10 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MNID 3.80E-04 se biological effects.  4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 0.00E+00 4.16E-04 he presence of sunlig	1.82E-0 0.00E+4 0.00E+4 4.11E-0 0.00E+4 0.00E+4 MND 3.89E-0 4.10E-0 7.81E-0 0.00E+4 0.00E+4 0.00E+4 0.00E+4 0.00E+6
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sh	A5 B1-B7 C2 C3 A1-A3 A4 A5 B1-B7 C4 C4 C5	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04  4.09E-04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 MND 4.21E.04  Chemical reactions 5.20E.06 7.15E-10 2.60E.07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 MND 4.29E-04 -8.29E-05 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.04E-04 ent of waters and c-1 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 MND 4.18E-04 -8.13E-06 -5.81E-07 0.00E+00 -5.81E-07 0.00E+00 0.00E+00 0.00E+00 5.8E-11 0.00E+00 0.00E+00 0.00E+00	0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MND 3.75E-04  antinental surfaces w 4.07E-04 -7.64E-06 2.03E-05 0.00E+00 -5.81E-07 0.00E+00 MND 4.19E-04 -5.20E-06 6.95E-10 2.60E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MIND 3.76E-04  AITHORITION OF THE PROPERTY OF THE PROPER	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.76E-04 0.35E-06 0.00E+00	0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MND 3.80E-04 se biological effects. 4.04E-04 7.78E-06 2.02E-05 0.00E+00 4.16E-04 MND 4.16E-04 be presence of sunlights 7.76E-10 2.58E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C 0.00E+C MND 3.89E-0 4.10E-0 0.00E+C 0.00E+C 0.00E+C 0.00E+C 0.00E+C MND 4.22E-0 7.11E-1 2.61E-0 0.00E+C 0.00E+C 0.00E+C 0.00E+C
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sh	A5 B1-B7 C2 C3 A4 A5 B1-B7 C1 Tord AC	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 MIND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 MIND 4.21E.04  Chemical reactions 5.20E.06 7.15E-10 2.60E.07 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 Excessive enrichm 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.29E-04 brought about by to the control of th	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 4.04E-04 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 4.18E-04 5.14E-06 7.40E-10 2.57E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.75E-04 0.00E+00 MNID 3.75E-04 0.00E+00 MNID	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MINID 3.76E-04  //ith nutrients, and the //ith nutrients, an	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MNID 3.76E-04 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.80E-04 se biological effects. 4.04E-04 7.78E-06 0.00E+00 0.00E+00 0.00E+00 4.16E-04 he presence of sunlig	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C 0.00E+C MND 4.22E-0 ht to form ozo 5.21E-0 0.00E+C 0.00E+C 0.00E+C 0.00E+C MND 0.00E+C MND 0.00E+C 0.00E+C MND 0.00E+C 0.00E+C 0.00E+C
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sh	A5 B1-B7 C1 C2 C3 A4 A5 B1-B7 C1 C2 C3 C4 D Total AC C5	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MND 4.17E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 4.04E-04 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.18E-04 5.14E-06 7.40E-10 2.57E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MNID 3.75E-04  4.07E-04 -7.64E-06 2.03E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.19E-04 4.19E-04 e sun. The reaction o an example of a ph	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.76E-04  //ith nutrients, and the 4.02E-04 -/7.75E-06 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04  4.07E-04 -7.65E-06 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MNID 3.80E-04 se biological effects.  4.04E-04 -7.78E-06 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.16E-04 be presence of sunlig	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C 0.00E+C MND 4.22E-0 4.12E-0 0.00E+C
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sh	A5 B1-B7 C2 C3 A1-A3 A4 A5 B1-B7 C4 D Total AC C5	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 4.11E.07 0.00E+00 MND 3.91E.04  4.09E-04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 MND 4.21E.04  Chemical reactions 5.20E.06 7.15E.10 2.60E.07 0.00E+00 MND	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 4.29E-04 brought about by t 5.24E-06 7.45E-10 2.62E-07 0.00E+00	0.00E+00	0.00E+00 4.11E-07 0.00E+00 MND 3.75E-04 A.07E-04 -7.64E-06 2.03E-05 0.00E+00 MND 4.19E-04 -5.81E-07 0.00E+00 MND 4.19E-04 -5.8E-06 -6.95E-10 2.60E-07 0.00E+00 5.28E-11 0.00E+00 5.28E-11 0.00E+00 5.28E-11 0.00E+00 5.28E-11	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MND 3.76E-04  A.02E-04 A.7.75E-06 2.01E-05 0.00E+00 MND 4.12E-04 A.12E-04 A.12E-04 A.12E-04 A.12E-04 A.12E-04 A.13E-04 A	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.76E-04 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.80E-04 se biological effects. 4.04E-04 -7.78E-06 2.02E-05 0.00E+00 MND 4.10E-04 -5.81E-07 0.00E+00 -5.81E-07 0.00E+00	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C 0.00E+C MND 4.22E-0 7.11E-1 2.61E-0 0.00E+C 0.00E+C 0.00E+C 0.00E+C MND 4.22E-0 0.00E+C 0.00E+C 0.00E+C 0.00E+C 0.00E+C 0.00E+C
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sh	A5 B1-B7 C2 C3 A4 A5 B1-B7 C1 Total AC B1-B7 C1 Total AC A1-A3 A4 A5 C1 Total AC A1-A3 A4 A5 B1-B7 C1 Total AC A1-A3 A4 A5 A5 B1-B7 C1 Total AC A1-A3 A4 A5 A4	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 MNID 3.91E.04  4.09E.04 4.09E.04 4.09E.04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MNID 4.21E.04  Chemical reactions  5.20E.06 7.15E.10 2.60E.07 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 Excessive enrichm 4.17E-04 8.19E-06 2.08E-05 0.00E+00 MND 4.29E-04 brought about by 1 5.24E-06 7.45E-10 0.00E+00 5.28E-11 0.00E+00 MND 5.50E-06 MND 5.50E-06	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 4.04E-04 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.88E-04 4.18E-04 5.14E-06 7.40E-10 2.57E-07 0.00E+00 0.00E+01 0.00E+01	0.00E+00 4.11E-07 0.00E+00 MNID 3.75E-04 0.00E+00 MNID 3.75E-04 0.00E+00 0.00E+01 0.00E+01	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MINID 3.76E-04  with nutrients, and the control of the co	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.76E-04 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.80E-04 se biological effects.  4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 MNID 4.16E-04 he presence of sunlig	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C MND 4.22E-0 5.21E-0 0.00E+C MND 4.22E-0 0.00E+C MND 5.27E-1 0.00E+C
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sh	A5 B1-B7 C1 C2 C3 A1-A3 A4 A5 B1-B7 C1 C2 C3 C4 D Torid AC C4 C5	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 -8.19E-06 2.08E-05 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MND 4.04E-04 ent of waters and cc 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 0.00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.0	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04  //ith nutrients, and the 4.02E-04 -7.75E-06 2.01E-05 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.0	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.80E-04 se biological effects.  4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.16E-04 be presence of sunlig	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C 0.00E+C MND 4.22E-0 4.22E-0 0.00E+C
	(EP) kg (PO <sub>4</sub> ) <sup>3</sup> - equiv/FU  Photochemical ozone creation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sh	A5 B1-B7 C2 C3 C4 D Total AC A1-A3 A4 A5 B1-B7 C4 C2 C3 C4 D Total AC A1-A3 A4 A5 B1-B7 C4 C4 D Total AC A1-A3 A4 A5 B1-B7 C4 C4 D Total AC A1-A3 A4 A5 B1-B7 C4 C4 D Total AC A1-A3 A4 A5 B1-B7 C4 D Total AC A1-A3 A4 A5 B1-B7 C4 D D Total AC A1-A3 A4 A5 B1-B7 C4 D D Total AC A1-A3 A4 A5 B1-B7 C4 D D Total AC A1-A3 A4 A5 B1-B7 C4 D D Total AC A1-A3 A4 A5 B1-B7 C4 D D TOTAL AC A1-A3 A4 A5 B1-B7 D TOTAL AC A1-A3 A4 A5	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 MND 3.91E.04  4.09E-04 -7.86E.06 2.04E.05 0.00E+00 MND 4.21E.04  Chemical reactions 5.20E.06 7.15E.10 2.60E.07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 4.21E.04	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 MND 4.29E-04 brought about by the state of the state	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 4.04E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 MND 4.18E-04 -8.13E-06 7.40E-10 2.57E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 5.14E-06 7.40E-10 2.57E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+01 0.00E+00 0.00E+01 0.00E+01	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.75E-04  antinental surfaces w 4.07E-04 -7.64E-06 2.03E-05 0.00E+00 MNID 4.19E-04  e sun. The reaction o an example of a ph 5.20E-06 6.93E-10 2.60E-07 0.00E+00 5.28E-11 0.00E+00 MNID 4.19E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MNID 3.76E-04 A.02E-04 A.7.75E-06 2.01E-05 0.00E+00 MNID 4.12E-04 A.14E-04 f nitrogen oxides witotochemical reaction 5.14E-06 7.05E-10 2.57E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MNID 3.76E-04 0.00E+00 4.07E-04 -7.65E-06 2.03E-05 0.00E+00 MNID 4.19E-04 h hydrocarbons in 1 2.60E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.80E-04 se biological effects. 4.04E-04 4.04E-04 7.78E-06 2.02E-05 0.00E+00 MND 4.16E-04 he presence of sunlig	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C 0.00E+C MND 4.22E-0 7.11E-1 2.61E-0 0.00E+C 5.28E-1 0.00E+C 5.28E-1 0.00E+C 5.28E-1 0.00E+C 5.38E-0 1.08E+C MND
	Photochemical ozone reation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sb equiv/FU  Abiotic depletion potential	A5 B1-B7 C1 C2 C3 A1-A3 A4 A5 B1-B7 C1 C2 C3 C4 D Torid AC C4 C5	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 0.00E+00 MND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MND 4.17E-04 -8.19E-06 2.08E-05 0.00E+00	0.00E+00 0.00E+00 1.11E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MNID 4.04E-04 -8.13E-06 2.04E-05 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 0.00E+00 0.00E+00 MNID 3.75E-04 0.00E+00 4.07E-04 -7.64E-06 2.03E-05 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MINID 3.76E-04  //ith nutrients, and the 4.02E-04 -7.75E-06 2.01E-05 0.00E+00 0.00E+00 0.00E+00 4.14E-04 f nitrogen oxides witotochemical reaction 5.14E-06 7.05E-10 2.57E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04 4.07E-04 -7.65E-06 2.03E-05 0.00E+00 0.00E+00 0.00E+00 4.19E-04 h hydrocarbons in 1 5.20E-06 6.96E-10 2.60E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.80E-04 se biological effects.  4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 0.00E+00 4.16E-04 he presence of sunlig	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C
	Photochemical ozone reation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sb equiv/FU  Abiotic depletion potential for fossil resources (ADP-	A5 B1-B7 C1 Total AC A1-A3 A4 A5 B1-B7 C1 Total AC A1-A3 A4 A5 B1-B7 C1 Total AC B1-B7 C1 Total AC C2 C3 C4 C4 C5 C6 C6 C6 C7	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 MND 3.91E.04  4.09E-04 -7.86E.06 2.04E.05 0.00E+00 MND 4.21E.04  Chemical reactions 5.20E.06 7.15E.10 2.60E.07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 4.21E.04	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 MND 4.29E-04 brought about by the state of the state	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 4.04E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 MND 4.18E-04 -8.13E-06 7.40E-10 2.57E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 5.14E-06 7.40E-10 2.57E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+01 0.00E+00 0.00E+01 0.00E+01	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.75E-04  antinental surfaces w 4.07E-04 -7.64E-06 2.03E-05 0.00E+00 MNID 4.19E-04  e sun. The reaction o an example of a ph 5.20E-06 6.93E-10 2.60E-07 0.00E+00 5.28E-11 0.00E+00 MNID 4.19E-04	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MNID 3.76E-04 A.02E-04 A.7.75E-06 2.01E-05 0.00E+00 MNID 4.12E-04 A.14E-04 f nitrogen oxides witotochemical reaction 5.14E-06 7.05E-10 2.57E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MNID 3.76E-04 0.00E+00 4.07E-04 -7.65E-06 2.03E-05 0.00E+00 MNID 4.19E-04 h hydrocarbons in 1 2.60E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.80E-04 se biological effects. 4.04E-04 4.04E-04 7.78E-06 2.02E-05 0.00E+00 MND 4.16E-04 he presence of sunlig	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C 0.00E+C MND 3.89E-0 4.10E-0 0.00E+C 0.00E+C 0.00E+C 0.00E+C 0.00E+C MND 4.22E-0 7.11E-1 2.61E-0 0.00E+C 0.00E+C 0.00E+C 0.00E+C
	Photochemical ozone reation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sb equiv/FU  Abiotic depletion potential	A5 B1-B7 C2 C3 A1-A3 A4 A5 B1-B7 C1 C2 C3 C4 D Total AC C5	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 4.11E.07 0.00E+00 MND 3.91E.04  4.09E.04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.21E.04  Chemical reactions  5.20E.06 7.15E.10 2.60E.07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 MND 4.29E-04 -8.19E-06 2.08E-05 0.00E+00 0.00E+00 MND 4.29E-04 -8.19E-06 7.45E-10 2.62E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.04E-04 ent of waters and c-1 4.07E-04 -8.13E-06 2.04E-05 0.00E+00 MND 4.18E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00	0.00E+00 4.11E-07 0.00E+00 MND 3.75E-04 A.07E-04 4.07E-04 6.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MIND 3.76E-04 AITHENT AITH NUTRICALL AITH NUT	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 3.76E-04 0.35E-06 0.00E+00	0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MND 3.80E-04 se biological effects. 4.04E-04 4.7.78E-06 2.02E-05 0.00E+00 4.16E-04 MND 4.16E-04 MND 4.16E-04 6.00E+00 0.00E+00	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C
	Photochemical ozone reation (POPC) kg Ethene equiv/FU  Abiotic depletion potential for non-fossil resources (ADP-elements) - kg Sb equiv/FU  Abiotic depletion potential for fossil resources (ADP-	A5 B1-B7 C2 C3 A4 A5 B1-B7 C1 C2 C3 A4 A5 B1-B7 C4 C4 D Total AC C4 C4 D Total AC C5 C3 C4 D Total AC C5	1.83E.05 0.00E+00 0.00E+00 4.11E.07 0.00E+00 4.11E.07 0.00E+00 MND 3.91E.04  4.09E-04 -7.86E.06 2.04E.05 0.00E+00 0.00E+00 MND 4.21E.04  Chemical reactions 5.20E.06 7.15E-10 2.60E.07 0.00E+00 0.00E+00 0.00E+00 1.88E.11 0.00E+00 1.88E.11 0.00E+00	1.96E-05 0.00E+00 0.00E+00 4.11E-07 0.00E+00 MND 4.17E-04 -8.19E-06 2.08E-05 0.00E+00 1.262E-07 0.00E+00 0.00E+00 0.00E+00 1.10E+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 MND 4.04E-04 -8.13E-06 2.04E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 4.18E-04 -8.13E-06 -7.40E-10 2.57E-07 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.75E-04 0.00E+00 MNID 3.75E-04 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 MNID 3.76E-04  //ith nutrients, and the //	0.00E+00 0.00E+00 4.11E-07 0.00E+00 4.11E-07 0.00E+00 0.00E+00 MNID 3.76E-04 0.00E+00	0.00E+00 0.00E+00 4.11E-07 0.00E+00 MNID 3.80E-04 se biological effects. 4.04E-04 -7.78E-06 2.02E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.16E-04 he presence of sunlig	1.82E-0 0.00E+C 0.00E+C 4.11E-0 0.00E+C 0.00E+C MND 3.89E-0 4.10E-0 -7.81E-C 2.05E-0 0.00E+C 0.00E+C 0.00E+C -5.81E-C 0.00E+C 0.00E+C -5.81E-C 0.00E+C MND 4.22E-0 -7.11E-1 2.61E-0 0.00E+C 5.28E-1 0.00E+C 5.28E-1 0.00E+C

Param					Environmental im					
	neters	A1-A3	T24/38 HE MB 3600 6.08E-01	6.32E-01	124/38 HE CT 600 6.22E-01	T24/38 HE CT 900 5.94E-01	T24/38 HE CT 1200 5.96E-01	5.94E-01	T24/38 HE CT 1800 6.00E-01	6.06E-01
		A4	6.51E-03	6.78E-03	6.74E-03	6.33E-03	6.42E-03	6.34E-03	6.44E-03	6.47E-03
*	Use of renewable	A5	3.04E-02	3.16E-02	3.11E-02	2.97E-02	2.98E-02	2.97E-02	3.00E-02	3.03E-02
v	primary energy exduding renewable	81-87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00
	primary energy	C1 C2	0.00E+00 4.81E-04	0.00E+00 4.81F-04	0.00E+00 4.81F-04	0.00E+00 4.81E-04	4.81E-04	0.00E+00 4.81E-04	0.00E+00 4.81E-04	0.00E+00 4.81E-04
	resources used as raw	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	materials - MJ / FU	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		D	MND	MND	MND	MND	MND	MND	MND	MND
		Total AC	6.46E-01	6.71E-01	6.60E-01	6.31E-01	6.33E-01	6.31E-01	6.37E-01	6.43E-01
		A1-A3 A4	3.49E-01 0.00E+00	6.12E-01 0.00E+00	5.67E-01 0.00E+00	1.71E-01 0.00E+00	2.56E-01 0.00E+00	1.78E-01 0.00E+00	2.80E-01 0.00E+00	3.10E-01 0.00E+00
		A5	-3.49E-01	-6.12E-01	-5.67E-01	-1.71E-01	-2.56E-01	-1.78E-01	-2.80E-01	-3.10E-01
y	Use of renewable	81-87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	primary energy used as raw materials	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	- MJ / FU	C2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		C3 C4	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00
		D D	MND	MND	MND	MND	MND	MND	MND	MND
		Total AC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		A1-A3	9.57E-01	1.24E+00	1.19E+00	7.65E-01	8.52E-01	7.72E-01	8.80E-01	9.16E-01
		A4	6.51E-03	6.78E-03	6.74E-03	6.33E-03	6.42E-03	6.34E-03	6.44E-03	6.47E-03
	se of renewable primary	A5 B1-B7	-3.19E-01 0.00E+00	-5.80E-01	-5.36E-01	-1.41E-01	-2.26E-01 0.00E+00	-1.48E-01	-2.50E-01 0.00E+00	-2.80E-01 0.00E+00
	rgy resources (primary gy and primary energy	C1	0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00
	sources used as raw	C2	4.81E-04	4.81E-04	4.81E-04	4.81E-04	4.81E-04	4.81E-04	4.81E-04	4.81E-04
	materials)	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	- MJ / FU	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		D	MND	MND	MND	MND	MND	MND	MND	MND
		Total AC	6.46E-01 T24/38 HE MB 3600	6.71E-01 T24/38 HE CT 300	6.60E-01 T24/38 HE CT 600	6.31E-01	6.33E-01	6.31E-01	6.37E-01	6.43E-01
		A1-A3				T24/38 HE CT 900	T24/38 HE CT 1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 240
		A1-A3	1.14E+01 2.70E-01	1.16E+01 2.81E-01	1.14E+01 2.79E-01	1.13E+01 2.63E-01	1.12E+01 2.66E-01	1.13E+01 2.63E-01	1.13E+01 2.67E-01	1.14E+01 2.68E-01
-	Use of non-renewable	A5	5.69E-01	5.82E-01	5.70E-01	5.65E-01	5.60E-01	5.65E-01	5.64E-01	5.70E-01
U	primary energy excluding non-	B1-B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	renewable primary	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	energy resources used	C2 C3	1.99E-02 0.00E+00	1.99E-02 0.00E+00	1.99E-02 0.00E+00	1.99E-02 0.00E+00	1.99E-02 0.00E+00	1.99E-02 0.00E+00	1.99E-02 0.00E+00	1.99E-02 0.00E+00
	as raw materials - MJ /FU	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	,	D	MND	MND	MND	MND	MND	MND	MND	MND
		Total AC A1 - A3	1.23E+01	1.25E+01	1.23E+01 3.44E-02	1.22E+01	1.20E+01	1.22E+01	1.22E+01 3.19E-02	1.23E+01 3.22E-02
		A1-A3	3.25E-02 0.00E+00	3.49E-02 0.00E+00	0.00E+00	3.09E-02 0.00E+00	3.17E-02 0.00E+00	3.10E-02 0.00E+00	0.00E+00	0.00E+00
_		A5	-2.80E-03	-5.15E-03	-4.74E-03	-1.21E-03	-1.97E-03	-1.27E-03	-2.18E-03	-2.45E-03
0	Use of non-renewable primary energy used as	B1-B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	raw materials	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	- MJ / FU	C2 C3	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00
		C4	-2.97E-02	-2.97E-02	-2.97E-02	-2.97E-02	-2.97E-02	-2.97E-02	-2.97E-02	-2.97E-02
		D	MND	MND	MND	MND	MND	MND	MND	MND
		Total AC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		A1-A3	1.14E+01	1.16E+01	1.14E+01	1.13E+01	1.12E+01	1.13E+01	1.13E+01	1.14E+01
		A4 A5	2.70E-01 5.66E-01	2.81E-01 5.77E-01	2.79E-01 5.65E-01	2.63E-01 5.64E-01	2.66E-01 5.58E-01	2.63E-01 5.64E-01	2.67E-01 5.62E-01	2.68E-01 5.68E-01
	ll use of non-renewable nary energy resources	81-87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	ary energy and primary	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
energ	gy resources used as raw materials) - MJ / FU	C2	1.99E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02
	maieriais, - ms / 10	C3 C4	0.00E+00 -2.97E-02	0.00E+00 -2.97E-02	0.00E+00 -2.97E-02	0.00E+00 -2.97E-02	0.00E+00 -2.97E-02	0.00E+00 -2.97E-02	0.00E+00 -2.97E-02	0.00E+00 -2.97E-02
		D	MND	MND	MND	MND	MND	MND	MND	MND
		Total AC	1.23E+01	1.25E+01	1.23E+01	1.22E+01	1.20E+01	1.22E+01	1.22E+01	1.23E+01
			T24/38 HE MB 3600	T24/38 HE CT 300	T24/38 HE CT 600	T24/38 HE CT 900	T24/38 HE CT 1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 24
		A1-A3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		A4	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00
9	Use of secondary	A5 B1-B7	0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 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	C1	0.00E+00							
	Kg / FU			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		C2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00 0.00E+00
		C3	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00
		C3 C4	0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00
		C3	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00
		C3 C4 D	0.00E+00 0.00E+00 0.00E+00 MND	0.00E+00 0.00E+00 0.00E+00 MND	0.00E+00 0.00E+00 0.00E+00 MND	0.00E+00 0.00E+00 0.00E+00 MND	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND	0.00E+00 0.00E+00 0.00E+00 MND	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00
		C3 C4 D	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE MB 3600	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 T24/38 HE CT 900	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1500	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00
<b>A</b>		C3 C4 D Total AC	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 T24/38 HE MB 3600 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 600 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1200 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 24 0.00E+00 0.00E+00
3	Use of renewable	C3 C4 D Total AC A1 - A3 A4 A5	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 724/38 HE MB 3600 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 300 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 600 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 900 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1200 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1500 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1800 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 24 0.00E+00 0.00E+00
3	secondary fuels	C3 C4 D Total AC A1 - A3 A4 A5 B1 - B7	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 T24/38 HE MB 3600 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 300 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 600 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 900 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CI 1200 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 He Cl 1500 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1800 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 24 0.00E+00 0.00E+00 0.00E+00 0.00E+00
\$		C3 C4 D Total AC A1 - A3 A4 A5 B1 - B7	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE MB 3600 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 1724/38 HE CT 300 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 724/38 HE CT 600 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 900 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1200 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1500 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 724/38 HE CT 1800 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 24 0.00E+00 0.00E+00 0.00E+00 0.00E+00
\$	secondary fuels	C3 C4 D Total AC A1 - A3 A4 A5 B1 - B7	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE MB 3600 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 300 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00 124/38 HE CT 600 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 900 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 724/38 HE CT1200 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1500 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00 124/38 HE CT 1800 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 24 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
<b>3</b>	secondary fuels	C3 C4 D Total AC  A1 - A3 A4 A5 B1 - B7 C1 C2 C3 C4	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/3B HE MB 3600 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 300 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 724/38 HE CT 600 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 900 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1200 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 724/38 HE CT 1800 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 24 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
\$	secondary fuels	C3 C4 D Total AC  A1 - A3 A4 A5 B1 - B7 C1 C2 C3 C4 D	0.00E+00 0.00E+00 MND 0.00E+00 F24/38 HE MB 3600 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 124/38 H£ C 600 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 900 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 124/38 HE CT 1200 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE (11500 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 1724/38 HE CT 24 0.00E+00
8	secondary fuels	C3 C4 D Total AC  A1 - A3 A4 A5 B1 - B7 C1 C2 C3 C4	0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 300 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 1724/38 HE CT 1200 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE C11500 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 12a/38 HE CT 24 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND
<b>3</b>	secondary fuels	C3 C4 D Total AC A1 - A3 A4 A5 B1 - B7 C1 C2 C3 C4 D Total AC	0.00E+00 0.00E+00 MND 0.00E+00 124,338 Hz M8 3600 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 300 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 600 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 900 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 24 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00 1.00E+00 0.00E+00
	secondary fuels	C3 C4 D Total AC  A1 – A3 A4 A5 B1 – B7 C1 C2 C3 C4 D Total AC	0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00
	secondary fuels MJ / FU	C3 C4 D Totel AC  A1 - A3 A4 A5 B1 - B7 C1 C2 C3 C4 D Totel AC	0.00E+00 0.00E+00 MND 0.00E+00 124,338 Hz M8 3600 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 600 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/28 HC 1210 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/28 HC 1150 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00 1.00E+00 1.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE C1 1800 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00: 0.00E+00: 0.00E+00: 0.00E+00: 0.00E+00: MND 0.00E+00: 124/38 Hz C12* 0.00E+00:
	secondary fuels	C3 C4 D Total AC  A1 – A3 A4 A5 B1 – B7 C1 C2 C3 C4 D Total AC	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE MB 3600 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00
	secondary fuels MJ / FU  Use of non-renewable	C3 C4 D Total AC  A1 - A3 A4 A5 B1 - B7 C1 C2 C3 C4 D Total AC  A1 - A3 A4 A5 B1 - B7 C1 C1	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+000 0.00E+000 0.00E+000 0.00E+000 0.00E+000 MND 0.00E+000
	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ /	C3 C4 D Total AC A1 – A3 A4 A5 B1 – B7 C1 C2 C3 C4 D Total AC A1 – A3 A4 A5 C1 C2 C3 C4 C4 C4 C5 C4 C7	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00
	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ /	C3 C4 D Total AC  A1-A3 A4 A5 B1-B7 C1 C2 C3 A1-A3 A4 A5 B1-B7 C1 C2 C3 C4 C4 C5 C4 C7	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 it c1150 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE C1 1800 0.00E+00	0.00E+00: 0.00E+
	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ /	C3 C4 D Total AC A1 – A3 A4 A5 B1 – B7 C1 C2 C3 C4 D Total AC A1 – A3 A4 A5 C1 C2 C3 C4 C4 C4 C5 C4 C7	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00 0.00E+00 MND 0.00E+00	0.00E+000
	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ /	C3 C4 D Totel AC A1 - A3 A4 A5 B1 - B7 C1 C2 C3 C4 D Totel AC A1 - A3 A4 A5 C1 C2 C3 C4 C1 C2 C3 C4 C1 C2 C3 C4 C1 C2 C3 C4	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 it c1150 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE C11800 0.00E+00	0.00E+000 0.00E+
	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ /	C3 C4 D Total AC A1 -A3 A4 A5 B1 -B7 C1 C2 C3 C4 D Total AC A1 -A3 A4 A5 B1 -B7 C1 C1 C2 C3 C4 D C0 C1 C0 C2 C3 C4 D C0 C1 C0 C1 C0 C2 C3 C4 D C0 C1	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 ir C1 130 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00: 0.00E+
	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ /	C3 C4 D Total AC A1 -A3 A4 A5 B1 -B7 C1 C2 C3 C4 D Total AC A1 -A3 A4 A5 B1 -B7 C1 C1 C2 C3 C4 D C0 C1 C0 C2 C3 C4 D C0 C1 C0 C1 C0 C2 C3 C4 D C0 C1	0.00E+00	0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+000 0.00E+
	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ /	C3 C4 D Total AC A1-A3 A4 A5 B1-87 C1 C2 C3 C4 D Total AC C1 C2 C3 C4 D Total AC C1 C2 C3 A4 A5 B1-87 C1 C4 C2 C3 A4 A5 A5 B1-87 C1 C4 C4 A5 A5 A6 A7 A7 A8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MNID 0.00E+00	0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1800 0.00E+00	0.00E+00: 0.00E+
	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ / FU	C3 C4 D Total AC A1-A3 A4 A5 B1-87 C1 C2 C3 C4 D Total AC A1-A3 A4 A5 B1-87 C2 C3 C4 D Total AC A5 A6 A7 A7 A7 A8 A7 A8	0.00E+00 0.0	0.00E+00 0.0	0.00E+00 0.0	0.00E+00 0.0	0.00E+00 0.0	0.00E+00 0.0	0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+
	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ /	C3 C4 D Total AC A1-A3 AA A5 B1-B7 C1 C2 C3 C4 D Total AC C1 C2 C3 C4 D Total AC A5 B1-B7 C1 C1 C2 C3 AA A5 B1-B7 C1 C1 C4 C4 D Total AC A5 B1-B7 C1 C4 D Total AC A5 B1-B7 C1 C4 D Total AC A5 B1-B7 Total AC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 it c 1150 0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.0
	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ / FU  Use of net fresh water	C3 C4 D Total AC A1-A3 A4 A5 B1-87 C1 C2 C3 C4 D Total AC A1-A3 A4 A5 B1-87 C1 C2 C3 C4 A5 B1-87 C1 C2 C3 C4 A5 B1-87 C1 C1 C2 C3 C4 A5 B1-87 C1 C1 C2 C3 C4 C1 C7	0.00E+00 0.0	0.00E+00 0.0	0.00E+00	0.00E+00	0.00E+00 0.0	0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1800 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00	0.00E+00
<b>3</b>	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ / FU  Use of net fresh water	C3 C4 D Total AC A1-A3 AA A5 B1-B7 C1 C2 C3 C4 D Total AC C1 C2 C3 C4 D Total AC A5 B1-B7 C1 C1 C2 C3 AA A5 B1-B7 C1 C1 C4 C4 D Total AC A5 B1-B7 C1 C4 D Total AC A5 B1-B7 C1 C4 D Total AC A5 B1-B7 Total AC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 124/3# utc1200 0.00E+	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00	0.00E+00
	secondary fuels MJ / FU  Use of non-renewable secondary fuels - MJ / FU  Use of net fresh water	C3 C4 D Total AC A1-A3 A4 A5 S1-87 C1 C2 C3 D Total AC A1-A3 A4 A5 S1-87 C1 C2 C3 D Total AC A1-A3 A4 A5 S1-87 C1 C2 C3 C4 D Total AC C1 C2 C3 C4 D C7 C1 C2 C3 C4 C4 C7	0.00E+00 0.0	0.00E+00 0.0	0.00E+00	0.00E+00	0.00E+00 0.0	0.00E+00	0.00E+00 0.00E+00 0.00E+00 MND 0.00E+00 124/38 HE CT 1800 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00	0.00E+00

# Waste categories

				Environmental im	pacts				
Parameters		T24/38 HE MB 3600	T24/38 HE CT 300	T24/38 HE CT 600	T24/38 HE CT 900	T24/38 HE CT 1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 2400
	A1 - A3	8.16E-09	8.19E-09	8.04E-09	8.19E-09	8.08E-09	8.19E-09	8.11E-09	8.19E-09
	A4	2.88E-12	3.00E-12	2.98E-12	2.80E-12	2.83E-12	2.80E-12	2.85E-12	2.86E-12
	A5	4.08E-10	4.10E-10	4.02E-10	4.10E-10	4.04E-10	4.10E-10	4.06E-10	4.10E-10
Hazardous waste	B1-B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
disposed	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
kg / FU	C2	2.12E-13	2.12E-13	2.12E-13	2.12E-13	2.12E-13	2.12E-13	2.12E-13	2.12E-13
3,	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	D	MND	MND	MND	MND	MND	MND	MND	MND
	Total A-C	8.58E-09	8.61E-09	8.45E-09	8.61E-09	8.49E-09	8.61E-09	8.52E-09	8.61E-09
		T24/38 HE MB 3600	T24/38 HE CT 300	T24/38 HE CT 600	T24/38 HE CT 900	T24/38 HE CT 1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 2400
	A1-A3	8.88E-02	9.03E-02	8.35E-02	9.03E-02	8.54E-02	9.03E-02	8.67E-02	9.03E-02
	A4	7.26E-06	7.56E-06	7.50E-06	7.05E-06	7.15E-06	7.06E-06	7.18E-06	7.21E-06
	A5	4.44E-03	4.51E-03	4.18E-03	4.51E-03	4.27E-03	4.51E-03	4.34E-03	4.51E-03
Non-hazardous	B1-B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
waste	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
disposed - kg / FU	C2	5.36E-07	5.36E-07	5.36E-07	5.36E-07	5.36E-07	5.36E-07	5.36E-07	5.36E-07
	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	D	MND	MND	MND	MND	MND	MND	MND	MND
	Total A-C	9.33E-02	9.48E-02	8.77E-02	9.48E-02	8.97E-02	9.48E-02	9.11E-02	9.48E-02
		T24/38 HE MB 3600	T24/38 HE CT 300	T24/38 HE CT 600	T24/38 HE CT 900	T24/38 HE CT 1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 2400
	A1-A3	1.81E-06	1.81E-06	1.80E-06	1.80E-06	1.80E-06	1.80E-06	1.80E-06	1.81E-06
	A4	3.17E-07	3.30E-07	3.27E-07	3.08E-07	3.12E-07	3.08E-07	3.13E-07	3.15E-07
Radioactive waste	A5	9.02E-08	9.04E-08	9.02E-08	9.01E-08	9.00E-08	9.01E-08	9.01E-08	9.02E-08
disposed	B1-B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
kg / FU	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9 / 10	C2	2.34E-08	2.34E-08	2.34E-08	2.34E-08	2.34E-08	2.34E-08	2.34E-08	2.34E-08
	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	D	MND	MND	MND	MND	MND	MND	MND	MND

## Output flow

				Environmental in	pacts				
Parameters		T24/38 HE MB 3600	T24/38 HE CT 300	T24/38 HE CT 600	T24/38 HE CT 900	T24/38 HE CT 1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 24
	A1-A3	-	-	-	-	-	-	-	-
	A4	-					-		-
	A5	-	-						-
<b>→</b>	B1-B7	-	-				-		-
Components for re-use	C1	-	-	-	-	-	-	-	-
kg/FU	C2	-	-	-	-	-	-	-	-
	C3	-	-	-	-	-	-		-
	C4	-	-	-	-	-	-		-
	D	MND	MND	MND	MND	MND	MND	MND	MND
	Total A-C			-	-	-	-		
		T24/38 HE MB 3600	T24/38 HE CT 300	T24/38 HE CT 600	T24/38 HE CT 900	T24/38 HE CT 1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 24
	A1-A3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	A5	3.95E-02	5.58E-02	5.30E-02	2.84E-02	3.37E-02	2.88E-02	3.52E-02	3.71E-02
<u></u>	B1 - B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
kg/FU					0.00E+00				
	C2	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00
	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	C4	3.56E-01 MND	3.56E-01 MND	3.56E-01 MND	3.56E-01 MND	3.56E-01 MND	3.56E-01	3.56E-01 MND	3.56E-01 MND
	D						MND		
	Total A-C	3.96E-01	4.12E-01	4.09E-01	3.84E-01	3.90E-01	3.85E-01	3.91E-01	3.93E-01
		T24/38 HE MB 3600	T24/38 HE CT 300	T24/38 HE CT 600	T24/38 HE CT 900	T24/38 HE CT 1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 24
	A1-A3	-	-	-	-	-	-	-	-
	A4	-	-	-	-	-	-	-	-
_	A5	-	-						-
	B1-B7	-	-	-	-	-	-	-	-
Materials for energy	C1	-	-	-	-	-	-	-	-
reovery - kg/FU	C2	-	-	-	-	-	-	-	-
	C3	-	-	-	-	-	-		-
	C4		-						
	D	MND	MND	MND	MND	MND	MND	MND	MND
	Total A-C	-	-	-	-	-	-		-
		T24/38 HE MB 3600	T24/38 HE CT 300	T24/38 HE CT 600	T24/38 HE CT 900	T24/38 HE CT 1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 24
	A1-A3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	A5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>†</b>	B1 - B7	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 MJ/FU	C1	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 MJ/F0	C2								
		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	D	MND	MND	MND	MND	MND	MND	MND	MND

## Summary

Aggregation of results from A1 to C4 in selected impact categories.

	T24/38 HE MB 3600	T24/38 HE CT 300	T24/38 HE CT 600	T24/38 HE CT 900	T24/38 HE CT 1200	T24/38 HE CT 1500	T24/38 HE CT 1800	T24/38 HE CT 2400
Global warming  kg CO <sub>2</sub> equiv/FU	1.16	1.19	1.16	1.16	1.15	1.16	1.15	1.17
Non-renewable resources consumption [1]	12	12	12	11.51	11.41	11.51	11.41	11.63
Energy consumption [2]  MJ/FU	13	13	13	12.78	12.68	12.78	12.79	12.91
Water consumption (3)  m³/FU	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Waste production [4]	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09

 $<sup>\</sup>label{prop:cond} \emph{[1] This indicator corresponds to the abiotic depletion potential of fossil resources}.$ 

<sup>[2]</sup> This indicator corresponds to the total use of primary energy.

[3] This indicator corresponds to the use of net fresh water.

[4] This indicator corresponds to the sum of hazardous, non-hazardous and radioactive waste disposed.

## Reference list

Reach: EU REACH Regulation (EC) No 1907/2006

LCA report: Project\_report\_on\_API\_LCA\_2021-12-09

EN 15804:2012+A1:2013: Sustainability of construction works - Environmental product declarations

PCR 2012:01 Construction products and construction services (version 2.33 dated 2020-09-18)

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