Environmental Product Declaration





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

DESSO Carpet Tiles, 100% recycled PA6 + EcoBase

from

TARKETT



Programme: The International EPD® System, <u>www.environdec.com</u>

Programme operator: EPD International AB

EPD registration number: S-P-08606

Publication date: 2023-03-27

Valid until: 2028-03-27

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





General information

Programme information

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

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product category rules (PCR): PCR 2019:14 version 1.11 and c-PCR-004 Resilient, textile and laminate floor coverings (EN 16810)
PCR review was conducted by: The Technical Committee of the International EPD® System lead by Claudia A Peña. A full list of members available on www.environdec.com. The review panel may be contacted via info@environdec.com
Independent third-party verification of the declaration and data, according to ISO 14025:2006:
☐ EPD process certification ☒ EPD verification
Third party verifier: Damien Prunel from LCIE Bureau Veritas
Procedure for follow-up of data during EPD validity involves third party verifier:
⊠ Yes □ No

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

EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.



Company information

Owner of the EPD: Tarkett
Contact: Sandy Bentmim (sandy.bentmim@tarkett.com)
Description of the organisation:

With an international coverage and a wide range of products, Tarkett has over 130 years of experience in providing integrated solutions for floorings to professionals and end users. Many of the most important architectural firms in the world and building professionals have chosen Tarkett for the value of its products and for its consultation and service abilities. Therefore, Tarkett floorings and sport surfaces are present in several prestigious architectural reference points. Tarkett offers integrated solutions for floorings, able to meet the particular needs of customers. Our wide range of designs, colours and models provides an infinite series of possibilities, contributing to create a positive environment and a better quality of life for people.

Tarkett operates with the utmost respect for the environment towards the realization of eco-friendly products.

Tarkett's commitment to the environment is woven throughout its business. Cradle-to-Cradle principles are, in fact, the basis of the design and production of every solution. Particularly, the lifecycle analysis is used to continuously improve the production process, and so the products until their use stage, disposal and recycling. The development of products that can be reused within internal production cycles, or external ones in case of other individuals, has been an integral part of the business strategy aimed at sustainability for many years. The WCM (World Class Manufacturing) management system has been developed in 2009, and it includes the environmental pillar aimed to the elimination of losses and to the growth of process efficiency.

<u>Product-related or management system-related certifications:</u> ISO 14001, ISO 45001, WCM manufacturing site

Name and location of production site(s): Dendermonde (Belgium) and Waalwijk (Netherlands)

Product information

Product name: DESSO Carpet tiles, 100% recycled PA6 + EcoBase

<u>Product identification:</u> Carpet tiles with a 100% recyclable DESSO EcoBase^{®1} backing and a 100% regenerated solution dyed Nylon yarn (Econyl)

<u>Product description:</u> Loose-lay carpet tiles (EN 1307) with DESSO EcoBase[®] backing developed by Tarkett. The service lifetime recommended by Tarkett is 10 years

UN CPC code: 2223Z

¹ Assured by Lloyds Register



LCA information

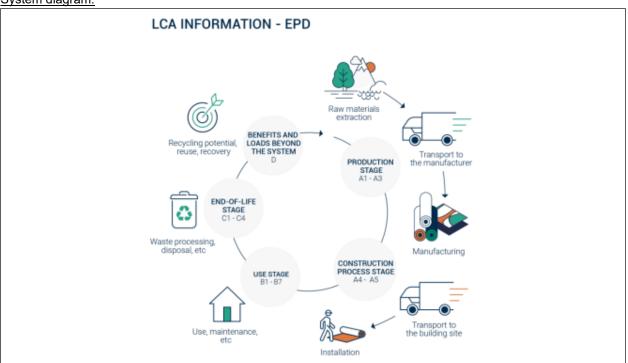
<u>Functional unit / declared unit:</u> 1m² of floor covering with a reference service life (RSL) of 1 year for specified characteristics application and use areas according to ISO 1307 and EN ISO 10874.

Reference service life: 1 year Time representativeness: 2021

Database(s) and LCA software used: Ecoinvent 3.6, Simapro 9.1

Description of system boundaries: Cradle to grave and module D (A + B + C + D)

System diagram:



<u>More information:</u> The products are classified in accordance with EN ISO 10874, (previously EN 685) and in reference to the FCSS (Floor Covering Standard Symbols) to be used in all professional areas which require class 33 or less.



Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation:

	Pro	duct st	age	Constr prod sta				Us	se sta	ge			Er	nd of li	fe sta	ge	Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling- potential
Module	A 1	A2	А3	A4	A 5	B1	B2	ВЗ	В4	B5	В6	В7	C1	C2	СЗ	C4	D
Modules declared	Х	Х	Х	Х	Х	ND	Х	ND	ND	ND	ND	ND	Х	х	х	Х	х
Geography					Europ	ean te	chnolo	gy and	process	s cover	age						European
Specific data used	-	100%	100%	100%	100%	-	-	-	-	-	-	-	-	-		% for cling cess	100% for recycling process
Variation – products		<23%		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	N	lot releva	nt	-	-	=	-	-	=	-	-	=	-	-	-	-	-



Content information

Characteristics	Product Thickness [mm]	Product Weight [kg/m²]	Dimensional stability [%]
Yarn range: 400-499		3.778	
Yarn range: 500-599		3.878	
Yarn range: 600-699	5.5 – 8.0	3.978	<0.2
Yarn range: 700-799		4.078	
Yarn range: 800-899		4.178	
Yarn range: 900-999		4.278	

Chemical composition for above mentioned products is presented in the following table:

			Weig	jht [%]			Post-	Renewable
Product components	400- 499	500- 599	600- 699	700- 799	800- 899	900- 999	consumer material, weight-%	material, weight-%
Non-woven (PET/PP)	4	4	4	3	3	3	0	0
Yarn PA6 (100% recycled)*	13	15	18	20	21	23	50	0
SBR-compound	6	6	6	6	6	5	0	0
Aluminium trihydrate	14	14	13	13	13	12	0	0
Primary chalk	4	3	3	3	3	3	0	0
Glass scrim	1	1	1	1	1	1	0	0
EcoBase (w. recycled chalk)	58	57	55	54	53	52	80	0
Packaging materials			Weig	jht, kg			Weight-% (
Cardboard box			0.	109				3
Wooden pallet			0.	100			2	2

^{*} The yarn is manufactured from 50% pre-consumer and 50% post-consumer materials. The environmental impact of the yarn is based on the EPD-S-P-08205 compliant to EN 15804+A2.

Material Health

DESSO Carpet Tiles with 100% recycled PA6 yarn and EcoBase backing are C2C-Gold or C2C-Silver certified.

Raw materials are assessed against 'Material Health' criteria as defined by the C2C product certification standard v3.1 and the C2C Material Health Assessment methodology (see www.c2ccertified.org).



Recycled content (third-party verified)

DESSO Carpet Tiles with 100% recycled PA6 yarn and EcoBase backing contains up to 64.5% recycled content. The products are delivered with the Cradle to Cradle® Gold-certified DESSO EcoBase® backing, which is 100% recyclable² and designed with 100% positively defined³ ingredients, including chalk upcycled from the Dutch drinking water industry, as the raw material in our DESSO EcoBase carpet backing.

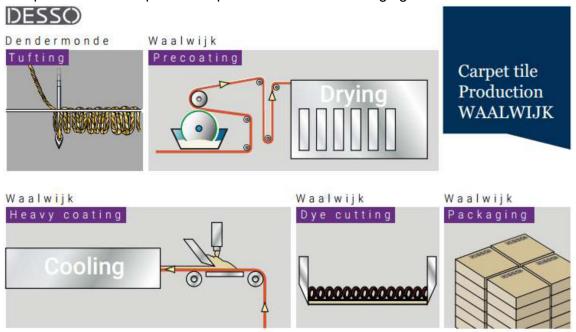
The products are made with ECONYL yarn which is a 100% regenerated nylon upcycled from postconsumer carpet yarn and discarded fishing nets.

Tarkett supports the Healthy Seas initiative. The initiative aims to remove waste, in particular fishing nets for the purpose of creating healthier seas and recycling marine litter into regenerated yarn, some of which is being used to produce PA6 yarn for our products.

Product manufacturing

Production process

The production of carpet tiles is presented in the following figure:



Renewable energy

Our carpet tiles are produced with energy from 100% renewable sources. The electricity is coming from renewable sources with Guarantees of Origin.

² Assured by Lloyds Register

³ Positively defined means all ingredients have been assessed as either Green (optimal) or Yellow (tolerable) according to the Cradle to Cradle® assessment criteria. As described in Cradle to Cradle® Certified Product Standard Version 3.1



Production waste

Waste type	DESSO Carpet Tiles, 100% recycled PA6 + EcoBase
Non-hazardous waste to incineration in the cement industry [kg/m²]	2.23E-01
Non-hazardous wastewater to external treatment [kg/m²]	2.04E-02

Delivery and installation

Delivery

The average distribution distance between the factories and the installation site is presented in the following table. The distribution is made by truck.

	DESSO Carpet Tiles, 100% recycled PA6 + EcoBase
Average distance of delivery [km]	7.00E+02

Installation

Carpet flooring do not use any electric tools for their installation. If a cut is necessary, it could be done with a manual tool.

Waste

During the installation approximately 3% of the flooring is lost as off-cuts. All flooring losses are sent to incineration.

Packaging

50% of the packaging materials goes to incineration and 50% goes to landfill except for wooden pallet which are recycled.

Use Stage

Reference Service Life (RSL)

For this product, the stated RSL is 1 year. It should be noted, however, that the service life of a carpet flooring may vary depending on the amount and nature of floor traffic and the type and frequency of maintenance. The manufacturer has provided this service life on the basis of his experience of flooring manufacture and supply. This RSL is applicable as long as the product use complies with that defined by ISO 14041 and ISO 10874 in accordance with the product's classification. The service lifetime recommended by Tarkett is 10 years.



Cleaning and maintenance

The maintenance step concerns the cleaning of the floor. Tarkett has provided the recommended maintenance routine for the product throughout the reference life. Water, detergent and electricity consumption of the cleaning machine are considered in the LCA study:

Common maintenance: 2 times / weekPeriodical maintenance: 2 times / year

Description	Amount	Unit
Electricity consumption	4.42E-01	kWh/year/m²
Water consumption	5.70E-02	L/year/m²
Detergent consumption	3.00E-03	L/year/m²

Prevention of structural damage

To avoid excessive wear, usage should be restricted to the stated areas of application as outlined by the norm ISO 10874.

End of Life

Tarkett has implemented a take-back and recycling program called ReStart. Via Tarkett's Sales Network and with the help of logistic partners, post-use carpet tiles are collected and returned to Tarkett's carpet recycling centre in Waalwijk, the Netherlands. DESSO's EcoBase products have been designed with disassembly and recycling in mind, which allows for recovery of yarn and backing materials in a closed-cycle and without loss of quality. 100% of all materials in PA6 carpet tiles with EcoBase backing can be recycled.⁴ The recycling process⁵ is developed by Tarkett and unique in the market.

Transport

Carpets are recycled in the same factory where they are produced. So, the distance of transport between installation sites and recycling site is the same as for the module A4 (average delivery distance to customer).

	DESSO Carpet Tiles, 100% recycled PA6 + EcoBase
Transport distance to Tarkett's carpet recycling centre [km]	7.00E+02

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 $^{^4}$ On average 75% is recycled in a closed-loop and the remaining 25% as co-production in the cement industry, with small variances per collection.

⁵ Recyclability has been verified by Lloyds Register.



Waste processing

Basically, the process separates yarn and EcoBase® backing and makes these main material streams available for the next carpet cycle, without loss of value and/or material properties (closed-loop recycling).

A small rest stream (mainly tuftcloth and SBR-compound) cannot be reused yet at the desired quality level. At this moment in time those streams will be considered as fuels and raw material (chalk and ATH) for the cement industry, until other outlets will be found.

Resource recovery

Module D has been considered for this study in order to evaluate the possible environmental benefits obtainable through the re-use of secondary materials in other production cycles. Particularly, the module clearly describes the benefits and the environmental charges deriving from reusable products exiting from the system, such as secondary materials or secondary fuels.

Three outlets have been considered:

- Yarr
- DESSO EcoBase[®] backing
- Others compounds

PA6 yarn will be sent back to Tarkett's yarn supplier Aquafil for depolymerization and reuse in new carpet yarns. This post-use material stream can be used for 100% and without quality loss for the production of new carpet yarns.

DESSO EcoBase[®] backing is 100% recyclable in Tarkett's own production process. Post-use material can be directly recovered in Tarkett's production for the same purpose and avoids the production and use of primary material.

A small rest fraction is recycled in the cement industry. The chalk and ATH content substitutes primary chalk, which is a raw material for the production of cement. Organic residues substitute primary fuel for processing.

Interpretation of results

The environmental impact of DESSO EcoBase products should be considered over the whole life cycle and beyond, including all module A-D. DESSO EcoBase consists of a novel recipe, specially designed to enable post-consumer recycling on a high level, which means, for the same purpose and without quality loss.

The new recipe was introduced in 2011. Because of the relatively long service life-time (10 years), the majority of current products are still in their first cycle, meaning that recycled content is still very minimal and not included in the calculations.



Environmental Information

Potential environmental impact

	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	В7	C1	C2	С3	C4	D
SWP-total	kg CO2 eq	4.41E+00	1.16E-01	3.89E-01	0.00E+00	1.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	9.52E-02	7.58E-01	-4.24E
WP-fossil GWP-	kg CO2 eq	4.35E+00	1.16E-01	2.79E-01	0.00E+00	1.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	8.88E-02	7.58E-01	-4.24E
biogenic	kg CO2 eq	6.30E-02	4.64E-05	1.10E-01	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	6.30E-03	6.24E-05	1.12E
VP- Luluc	kg CO2 eq kg CFC11	4.86E-03 1.40F-06	4.57E-05 2.68E-08	1.54E-04 4.48E-08	0.00E+00 0.00E+00	6.50E-04 8.90E-09	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	4.57E-05 2.69E-08	1.09E-04 4.49E-09	6.44E-06 1.67E-09	-3.32E
ODP	eq mol H+ eq	1.99E-02	4.65E-04	6.88E-04	0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04	6.61E-04	1.75E-04	-1.11
EP- shwater	kg P eq	9.50E-04	7.49E-06	3.04E-05	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-06	4.53E-05	2.26E-06	-5.58
-marine	kg N eq	4.58E-03	1.39E-04	2.69E-04	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	1.08E-04	9.85E-05	-1.28
terrestrial POCP	mol N eq kg NMVOC	4.40E-02 1.42E-02	1.52E-03 4.66E-04	1.65E-03 5.44E-04	0.00E+00 0.00E+00	1.46E-03 3.96E-04	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	1.55E-03 4.76E-04	1.13E-03 3.41E-04	8.40E-04 2.04E-04	-1.67 -7.37
ADP-	eq	1.422 02	4.002.04	5.442 64	0.002.00	5.502 04	0.002.00	0.002-00	0.002.00	0.002.00	0.002-00	0.002.00	4.702.04	3.41E 04	2.042 04	7.57
erals&me tals*	kg Sb eq	2.59E-05	4.05E-07	8.24E-07	0.00E+00	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-07	7.60E-06	5.39E-08	-1.34
P-fossil*	MJ	8.89E+01	1.75E+00	2.86E+00	0.00E+00	3.83E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E+00	8.29E-01	1.42E-01	-9.91
WDP	m3 depriv.	3.44E+00	5.10E-03	1.11E-01	0.00E+00	4.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-03	4.21E-02	3.58E-02	3.02
ronyms			ompartment; E	P-terrestrial =	Exceedance; E Eutrophication ssil = Abiotic d Results pe	potential, Acc epletion for fo	cumulated Exc	eedance; POC potential; WDI	P = Formation P = Water (use	potential of tre er) deprivation	opospheric ozo potential, depr	ne; ADP-mine	erals&metals :	Abiotic deple		
idicator	Unit	A1-A3	A4	A 5	B1	B2	В3	B4	B5	B6	В7	C1	C2	СЗ	C4	
VD total	h= 000 ==	4.605.00	4.465.04	4.025.04	0.005.00	4 705 04	0.005.00	0.005.00	0.005+00	0.005.00	0.005.00	0.005.00	4.485.04	0.505.00	7 505 04	-4.69
/P-total 'P-fossil	kg CO2 eq kg CO2 eq	4.62E+00 4.55E+00	1.16E-01 1.16E-01	4.03E-01 2.92E-01	0.00E+00 0.00E+00	1.78E-01 1.76E-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	1.16E-01 1.16E-01	9.52E-02 8.88E-02	7.58E-01 7.58E-01	-4.68
GWP- ogenic	kg CO2 eq	6.63E-02	4.64E-05	1.10E-01	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	6.30E-03	6.24E-05	1.41
P- Luluc	kg CO2 eq kg CFC11	5.36E-03	4.57E-05	1.69E-04	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	1.09E-04	6.44E-06	-3.7
AP	eq	1.41E-06	2.68E-08	4.49E-08	0.00E+00	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-08	4.49E-09	1.67E-09	-9.7
ODP EP-	mol H+ eq	2.08E-02 9.52E-04	4.65E-04 7.49E-06	7.16E-04	0.00E+00 0.00E+00	9.55E-04	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	4.72E-04 7.49E-06	6.61E-04	1.75E-04 2.26E-06	-1.1°
hwater marine	kg Peq kg Neq	9.52E-04 4.92E-03	7.49E-06 1.39E-04	3.05E-05 2.80E-04	0.00E+00 0.00E+00	1.74E-04 1.70E-04	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	1.42E-04	4.53E-05 1.08E-04	9.85E-05	-5.5
errestrial	mol N eq	4.69E-02	1.52E-03	1.74E-03	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	1.13E-03	8.40E-04	-1.6
POCP	kg NMVOC eq	1.49E-02	4.66E-04	5.69E-04	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	3.41E-04	2.04E-04	-7.55
ADP- erals&me tals*		2.60E-05	4.05E-07	8.28E-07	0.00E+00	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-07	7.60E-06	5.39E-08	-1.35
P-fossil* WDP	MJ m3 depriv.	9.12E+01 3.90E+00	1.75E+00 5.10E-03	2.93E+00 1.25E-01	0.00E+00 0.00E+00	3.83E+00 4.44E-02	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	1.76E+00 5.10E-03	8.29E-01 4.21E-02	1.42E-01 3.58E-02	-1.10 3.73
ronyms	ozone layer;	AP = Acidifica	tion potential, ompartment; E	Accumulated E P-terrestrial =	SWP-biogenic Exceedance; E Eutrophication ssil = Abiotic d Results pe	P-freshwater = potential, Acc epletion for fos	Eutrophication	n potential, fra eedance; POC potential; WDF	ction of nutrier P = Formation P = Water (use	nts reaching fr potential of tr er) deprivation	eshwater end o opospheric ozo potential, depr	compartment; one; ADP-mine	EP-marine = E erals&metals =	Eutrophication Abiotic deple	potential, fract	tion of n
/P-total	kg CO2 eq	4.83E+00	1.16E-01	4.16E-01	0.00E+00	1.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	9.52E-02	7.58E-01	-5.15
P-fossil SWP-	kg CO2 eq	4.76E+00	1.16E-01	3.06E-01	0.00E+00	1.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	8.88E-02	7.58E-01	-5.15
genic P- Luluc	kg CO2 eq kg CO2 eq	6.96E-02 5.87E-03	4.64E-05 4.57E-05	1.10E-01 1.84E-04	0.00E+00 0.00E+00	1.11E-03 6.50E-04	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	4.65E-05 4.57E-05	6.30E-03 1.09E-04	6.24E-05 6.44E-06	1.70 -4.27
AP	kg CFC11	1.41E-06	2.68E-08	4.50E-08	0.00E+00 0.00E+00	8.90E-09	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	2.69E-08	4.49E-09	1.67E-09	-9.24
	eq mol H+ eq	2.17E-02	4.65E-04	7.44E-04	0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04	6.61E-04	1.75E-04	-1.12
ODP	kg P eq	9.55E-04	7.49E-06	3.06E-05	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-06	4.53E-05	2.26E-06	-5.54
EP-		5.26E-03	1.39E-04	2.92E-04	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	1.08E-04	9.85E-05	-1.09
EP- hwater marine	kg N eq	4.97E-02	1.52E-03	1.83E-03	0.00E+00 0.00E+00	1.46E-03 3.96E-04	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	1.55E-03 4.76E-04	1.13E-03 3.41E-04	8.40E-04 2.04E-04	-1.58 -7.73
EP- hwater marine errestrial	mol N eq kg NMVOC		4.66E-04	5.93E-04												
EP- shwater marine errestrial OCP	mol N eq kg NMVOC eq	1.57E-02	4.66E-04	5.93E-04		4.40= ==	0.005.55	0.005	0.005.00	0.00= 01	0.005.44	0.005.51	4.055.55	7.007.01	E 005	
DDP EP- shwater marine errestrial POCP ADP- erals&me tals*	mol N eq kg NMVOC		4.66E-04 4.05E-07 1.75E+00	8.31E-07 3.01E+00	0.00E+00 0.00E+00	4.49E-07 3.83E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	4.05E-07 1.76E+00	7.60E-06 8.29E-01	5.39E-08 1.42E-01	-1.36 -1.21



Indicator	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4	D
illulcator	OIIIC	A1-A3	A4	AS	ы	DZ	ь	D4	БЭ	ВО	ы	CI	CZ	C3		·
WP-total	kg CO2 eq	5.03E+00	1.16E-01	4.29E-01	0.00E+00	1.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	9.52E-02	7.58E-01	-5.60
NP-fossil GWP-	kg CO2 eq	4.96E+00	1.16E-01	3.19E-01	0.00E+00	1.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	8.88E-02	7.58E-01	-5.61
oiogenic	kg CO2 eq	7.30E-02	4.64E-05	1.10E-01	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	6.30E-03	6.24E-05	1.98
	kg CO2 eq kg CFC11	6.37E-03	4.57E-05	1.99E-04	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	1.09E-04	6.44E-06	-4.7
AP	eq	1.42E-06	2.68E-08	4.52E-08	0.00E+00	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-08	4.49E-09	1.67E-09	-8.7
ODP EP-	mol H+ eq	2.25E-02	4.65E-04	7.72E-04	0.00E+00 0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00	4.72E-04	6.61E-04	1.75E-04	-1.1 -5.5
eshwater	kg P eq	9.58E-04 5.60E-03	7.49E-06 1.39E-04	3.08E-05 3.03E-04	0.00E+00	1.74E-04 1.70E-04	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	7.49E-06 1.42E-04	4.53E-05 1.08E-04	2.26E-06 9.85E-05	-5.5
o-marine -terrestrial	kg N eq mol N eq	5.00E-03 5.25E-02	1.52E-03	1.93E-03	0.00E+00 0.00E+00	1.70E-04 1.46E-03	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	1.42E-04 1.55E-03	1.08E-04 1.13E-03	9.85E-05 8.40E-04	-9.8
POCP ADP-	kg NMVOC eq	1.64E-02	4.66E-04	6.17E-04	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	3.41E-04	2.04E-04	-7.9
nerals&me tals*		2.62E-05	4.05E-07	8.35E-07	0.00E+00	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-07	7.60E-06	5.39E-08	-1.3
DP-fossil* WDP	MJ m3 depriv.	9.58E+01 4.82E+00	1.75E+00 5.10E-03	3.08E+00 1.54E-01	0.00E+00 0.00E+00	3.83E+00 4.44E-02	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	1.76E+00 5.10E-03	8.29E-01 4.21E-02	1.42E-01 3.58E-02	-1.33 5.16
cronyms	ozone layer;	AP = Acidifica	tion potential, ompartment; E	Accumulated E P-terrestrial =	GWP-biogenic Exceedance; E Eutrophication ssil = Abiotic d Results pe	P-freshwater = potential, Acc epletion for fos	Eutrophication cumulated Exc ssil resources	n potential, fra eedance; POC	ction of nutrier P = Formation P = Water (use	nts reaching fr potential of tr r) deprivation	eshwater end o opospheric ozo potential, depr	compartment; one; ADP-mine	EP-marine = E erals&metals =	Eutrophication Abiotic deple	potential, frac	ion of r
ndicator	Unit	A1-A3	A4	A 5	B1	B2	В3	B4	B5	В6	B7	C1	C2	С3	C4	
GWP-total	kg CO2 eq	5.24E+00	1.16E-01	4.43E-01	0.00E+00	1.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	9.52E-02	7.58E-01	-6.0
WP-fossil GWP-	kg CO2 eq	5.16E+00	1.16E-01	3.32E-01	0.00E+00	1.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	8.88E-02	7.58E-01	-6.0
biogenic	kg CO2 eq	7.63E-02	4.64E-05	1.11E-01	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	6.30E-03	6.24E-05	2.2
WP- Luluc	kg CO2 eq kg CFC11	6.87E-03	4.57E-05	2.14E-04	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	1.09E-04	6.44E-06	-5.2
AP	eq	1.42E-06	2.68E-08	4.53E-08	0.00E+00	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-08	4.49E-09	1.67E-09	-8.1
ODP EP-	mol H+ eq	2.34E-02	4.65E-04	8.00E-04	0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04	6.61E-04	1.75E-04	-1.1
reshwater	kg P eq	9.61E-04	7.49E-06	3.09E-05	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-06	4.53E-05	2.26E-06	-5.5
EP-marine P-terrestrial	kg N eq mol N eq	5.94E-03 5.53E-02	1.39E-04 1.52E-03	3.14E-04 2.02E-03	0.00E+00 0.00E+00	1.70E-04 1.46E-03	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	1.42E-04 1.55E-03	1.08E-04 1.13E-03	9.85E-05 8.40E-04	-8.8 -1.4
POCP	kg NMVOC	1.72E-02	4.66E-04	6.41E-04	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	3.41E-04	2.04E-04	-8.1
ADP- inerals&me	eq kg Sb eq	2.63E-05	4.05E-07	8.38E-07	0.00E+00	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-07	7.60E-06	5.39E-08	-1.3
tals* DP-fossil* WDP	MJ m3 depriv.	9.81E+01 5.28E+00	1.75E+00 5.10E-03	3.15E+00 1.68E-01	0.00E+00 0.00E+00	3.83E+00 4.44E-02	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	1.76E+00 5.10E-03	8.29E-01 4.21E-02	1.42E-01 3.58E-02	-1.44 5.87
Acronyms	ozone layer;	AP = Acidifica	tion potential, a ompartment; E	Accumulated E :P-terrestrial =	GWP-biogenic Exceedance; El Eutrophication ssil = Abiotic d Results pe	P-freshwater = potential, Acc epletion for fos	Eutrophicatio umulated Exc ssil resources	n potential, fra eedance; POC	ction of nutrier P = Formation P = Water (use	nts reaching fr potential of tre r) deprivation	eshwater end o opospheric ozo potential, depri	compartment; one; ADP-mine	EP-marine = E rals&metals =	utrophication Abiotic deplet	potential, fract	ion of n
Indicator	Unit	A1-A3	A4	A 5	B1	B2	В3	B4	B5	В6	B7	C1	C2	С3	C4	ı
GWP-total	kg CO2 eq	5.44E+00	1.16E-01	4.56E-01	0.00E+00	1.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	9.52E-02	7.58E-01	-6.52
SWP-fossil	kg CO2 eq		1.16E-01	3.46E-01	0.00E+00	1.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	8.88E-02	7.58E-01	-6.52
GWP- biogenic	kg CO2 eq	7.96E-02	4.64E-05	1.11E-01	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	6.30E-03	6.24E-05	2.56
WP- Luluc	kg CO2 eq kg CFC11		4.57E-05	2.29E-04	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	1.09E-04	6.44E-06	-5.6
AP	eq	1.42E-06	2.68E-08	4.55E-08	0.00E+00	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-08	4.49E-09	1.67E-09	-7.63
ODP EP-	mol H+ eq	2.43E-02	4.65E-04	8.28E-04	0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04	6.61E-04	1.75E-04	-1.13
reshwater	kg P eq	9.63E-04	7.49E-06	3.10E-05	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-06	4.53E-05	2.26E-06	-5.41
EP-marine P-terrestrial	kg N eq mol N eq	6.28E-03 5.81E-02	1.39E-04 1.52E-03	3.25E-04 2.11E-03	0.00E+00 0.00E+00	1.70E-04 1.46E-03	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	1.42E-04 1.55E-03	1.08E-04 1.13E-03	9.85E-05 8.40E-04	-7.86 -1.44
POCP	kg NMVOC eq	1.79E-02	4.66E-04	6.66E-04	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	3.41E-04	2.04E-04	-8.21
ADP- inerals&me tals*	kg Sb eq	2.64E-05	4.05E-07	8.41E-07	0.00E+00	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-07	7.60E-06	5.39E-08	-1.39
DP-fossil*	MJ m3 depriv.	1.00E+02 5.74E+00	1.75E+00 5.10E-03	3.22E+00 1.82E-01	0.00E+00 0.00E+00	3.83E+00 4.44E-02	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	1.76E+00 5.10E-03	8.29E-01 4.21E-02	1.42E-01 3.58E-02	-1.55 6.58
WDP																stratos

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



Use of resources

Indicator					Results pe	r tunctional of	i ueciareu uiiii	, - yarıı welyili	t 400-499 y/m	2 (End of Life -	> Kecycling)					
mulcutor	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE			2.48E-02									0.00E+00	2.48F-02			
	MJ, net CV	2.50E+01		2.33E+00	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00 0.00F+00	0.00E+00	0.00E+00			1.44E+01	5.52E-03	1.28E+01
	MJ, net CV	3.62E+00	0.00E+00	-1.47E+00	0.00E+00	0.00E+00	0.00E+00	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, net CV	2.86E+01	2.48E-02	8.64E-01	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-02	1.44E+01	5.52E-03	1.28E+01
	MJ, net CV	5.36E+01	1.75E+00	1.80E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E+00	8.28E-01	1.42E-01	-7.88E+0
	MJ, net CV	5.14E+01	0.00E+00	1.54E+00	0.00E+00	0.00E+00	5.24E+00									
	MJ, net CV	1.05E+02	1.75E+00	3.35E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E+00	8.28E-01	1.42E-01	-7.35E+0
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MJ, net CV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.69E-25
	MJ, net CV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.88E-24
FW	m3	7.74E-02	6.65E-05	2.55E-03	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	6.23E-04	1.08E-03	6.63E-02
Acronyms	PEHE = Use renewable	of renewable pr e primary energy	imary energy exc excluding non-r	luding renewable enewable primary	energy resource secondary mate	es used as raw ma erial; RSF = Use o	iterials; PENRM = f renewable seco	Use of non-renes ndary fuels; NRSI	wable primary en F = Use of non-re	ergy resources us new able second	ed as raw materi ary fuels; FW = U	ials; PERT = Total als; PENRT = Tota se of net fresh wa	luse of non-rene	e primary energy r ew able primary er	esources; PtNH nergy re-sources;	E = Use of non- ;SM = Use of
Indicator	Unit	A1-A3	A4	A5	Results pe	er functional o	r declared unii B3	t - yarn weight B4	t 500-599 g/m B5	2 (End of Life -	> Recycling) B7	C1	C2	С3	C4	D
					0.00E+00							0.00E+00				
	MJ, net CV	2.89E+01	2.48E-02	2.45E+00	0.000	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002 00	2.48E-02	1.44E+01	5.52E-03	1.56E+01
	MJ, net CV	3.61E+00	0.00E+00 2.48E-02	-1.47E+00 9.82F-01	0.00E+00 0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00 2.48E-02	0.00E+00 1.44E+01	0.00E+00 5.52E-03	
	MJ, net CV	3.25E+01				6.56E-01			0.00E+00 0.00E+00			0.00E+00				1.56E+01
	MJ, net CV	5.60E+01	1.75E+00	1.88E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00	0.00E+00	1.76E+00	8.28E-01	1.42E-01	-8.99E+0
	MJ, net CV	5.46E+01	0.00E+00	1.64E+00	0.00E+00	0.00E+00	1.04E+01									
	MJ, net CV	1.11E+02	1.75E+00	3.52E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E+00	8.28E-01	1.42E-01	-7.96E+0
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MJ, net CV		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.03E-25
	MJ, net CV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-9.46E-24
FW	m3	8.78E-02	6.65E-05	2.87E-03	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	6.23E-04	1.08E-03	8.12E-02
Acronyms	PERE = Use renewabl	of renewable pr e primary energy	imary energy exc excluding non-r	luding renewable renewable primary	energy resource	es used as raw ma	terials; PENRM =	Use of non-rener	wable primary en	ergy resources us	ed as raw materi	ials; PERT = Total als; PENRT = Tota lse of net fresh wa	luse of non-rene	e primary energy r ew able primary en	esources; PENRI nergy re-sources;	E = Use of non- ; SM = Use of
					Results pe	er functional o	r declared uni	t - yarn weight	t 600-699 g/m	2 (End of Life	> Recycling)					
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ, net CV	3.29E+01	2.48E-02	2.57E+00	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-02	1.44E+01	5.52E-03	1.84E+0
PERM	MJ, net CV	3.61E+00	0.00E+00	-1.47E+00	0.00E+00	0.00E+00	0.00E+00									
PERT	MJ, net CV	3.65E+01	2.48E-02	1.10E+00	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-02	1.44E+01	5.52E-03	1.84E+01
PENRE	MJ, net CV	5.83E+01	1.75E+00	1.95E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E+00	8.28E-01	1.42E-01	-1.01E+0
PENRM	MJ, net CV	5.78E+01	0.00E+00	1.73E+00	0.00E+00	0.00E+00	1.55E+01									
PENRT	MJ, net CV	1.16E+02	1.75E+00	3.68E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E+00	8.28E-01	1.42E-01	-8.56E+0
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ, net CV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-9.37E-25
	MJ, net CV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.10E-23
FW	m3	9.82E-02	6.65E-05	3.19E-03	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	6.23E-04	1.08E-03	9.61E-02
Acronyms	PERE = Use	of renewable pr	imary energy exc	luding renewable renewable primary	primary energy re	sources used as	raw materials; PE	:RM = Use of rene	ewable primary er	ergy resources u	sed as raw mater	ials; PERT = Total	use of renewable	primary energy i	resources; PENR	E = Use of non-
Acronyms	renevabi	e primary energy	excluding non-	renewable primary	secondary mate	erial; RSF = Use o	f renewable seco	ndary fuels; NRS	F = Use of non-re	enewable second	lary fuels; FW = L	ais, motifiesh wa	ter	ev able primary er	iergy re-sources	, or - use or
Indicator	Unit	A1-A3	A4	A5	B1	er functional o	B3	B4	B5	B6	B7	C1	C2	СЗ	C4	D
PERE	MJ, net CV	3.68E+01	2.48E-02	2.69E+00	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-02	1.44E+01	5.52E-03	2.12E+01
PERM	MJ, net CV	3.60E+00	0.00E+00	-1.47E+00	0.00E+00	0.00E+00	0.00E+00									
	MJ, net CV	4.04E+01	2.48E-02	1.22E+00	0.00E+00	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-02	1.44E+01	5.52E-03	2.12E+01
	MJ, net CV	6.07E+01	1.75E+00	2.02E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E+00	8.28E-01	1.42E-01	-1.12E+02
	MJ, net CV	6.10E+01	0.00E+00	1.83E+00	0.00E+00	0.00E+00	2.06E+01									
	MJ, net CV	1.22E+02	1.75E+00	3.85E+00	0.00E+00	3.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E+00	8.28E-01	1.42E-01	-9.17E+01
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MJ, net CV	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.07E-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			
NRSF	MJ, net CV	0.00E+00	0.00E+00			0.002.00								0.00E+00	0.00E+00	
NRSF FW	MJ, net CV m3	0.00E+00 1.09E-01	6.65E-05	3.51E-03	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	6.23E-04		-1.26E-23 1.11E-01
	m3 PERE = Use	1.09E-01 of renewable pr	6.65E-05 imary energy exc	3.51E-03 Huding renewable renewable primary	primary energy re energy resource	3.12E-03 esources used as es used as raw ma	raw materials; PE iterials; PENRM=	:RM = Use of rene Use of non-rener	0.00E+00 ew able primary en w able primary en	0.00E+00 ergy resources usergy resources us	sed as raw mater ed as raw materi	ials; PERT = Total als; PENRT = Tota	use of renewable luse of non-rene	6.23E-04	0.00E+00 1.08E-03 esources; PENRI	-1.26E-23 1.11E-01 E = Use of non-
FW	m3 PERE = Use	1.09E-01 of renewable pr	6.65E-05 imary energy exc	luding renewable	primary energy re energy resource secondary mate	3.12E-03 esources used as es used as raw ma	raw materials; PE sterials; PENRM = f renewable seco	RM = Use of rene Use of non-rener ndary fuels; NRS	0.00E+00 ev able primary er wable primary en F = Use of non-re	0.00E+00 ergy resources u ergy resources us enew able second	sed as raw mater ed as raw materi ary fuels; FW = U	ials; PERT = Total	use of renewable luse of non-rene	6.23E-04 e primary energy r ewable primary en	0.00E+00 1.08E-03 esources; PENRI ergy re-sources;	-1.26E-23 1.11E-01 E = Use of non- ; SM = Use of
FW Acronyms	m3 PERE = Use	1.09E-01 of renewable pr	6.65E-05 imary energy exc	luding renewable	primary energy re energy resource secondary mate	3.12E-03 esources used as es used as raw ma erial; RSF = Use o	raw materials; PE sterials; PENRM = f renewable seco	RM = Use of rene Use of non-rener ndary fuels; NRS	0.00E+00 ev able primary er wable primary en F = Use of non-re	0.00E+00 ergy resources u ergy resources us enew able second	sed as raw mater ed as raw materi ary fuels; FW = U	ials; PERT = Total als; PENRT = Tota	use of renewable luse of non-rene	6.23E-04	0.00E+00 1.08E-03 esources; PENRI	-1.26E-23 1.11E-01 E = Use of non-
FW Acronyms Indicator	m3 PERE = Use renewabl	1.09E-01 of renewable pr e primary energy	6.65E-05 imary energy exc u excluding non-r	eluding renewable renewable primary	primary energy re energy resource secondary mate Results pe	3.12E-03 esources used as es used as raw ma erial; RSF = Use o er functional o	raw materials; PE sterials; PENRM= f renewable seco r declared uni	RM = Use of rene Use of non-rener ndary fuels; NRS t - yarn weigh	0.00E+00 ewable primary en wable primary en F = Use of non-re t 800-899 g/m	0.00E+00 sergy resources usergy resources usergy resources usernewable second 2 (End of Life	sed as raw mater ed as raw materi ary fuels; FW = U -> Recycling)	ials; PERT = Total als; PENRT = Tota ise of net fresh wa	use of renewable luse of non-rene er	6.23E-04 e primary energy r ewable primary en	0.00E+00 1.08E-03 esources; PENRI ergy re-sources;	-1.26E-23 1.11E-01 E = Use of non- ; SM = Use of D
FW Acronyms Indicator PERE	m3 PERE = Use renewabl	1.09E-01 of renewable pr e primary energy	6.65E-05 imary energy exc p excluding non-r	eluding renewable renewable primary A5	primary energy re energy resource secondary mate Results pe	3.12E-03 esources used as es used as raw ma erial; RSF = Use o er functional o B2	raw materials; PE sterials; PENRM = f renewable seco r declared uni B3	RM = Use of rene Use of non-rener ndary fuels; NRS t - yarn weigh B4	0.00E+00 ev able primary er v able primary en F = Use of non-re t 800-899 g/m	0.00E+00 ergy resources usergy resources userewable second 2 (End of Life B6	sed as raw mater ed as raw materi aryfuels; FW = U > Recycling) B7	tals; PERT = Total als; PENRT = Total se of net fresh wa C1	use of renewable luse of non-rene er C2	6.23E-04 e primary energy r ewable primary en	0.00E+00 1.08E-03 esources; PENRI eergy re-sources; C4	-1.26E-2: 1.11E-01 E = Use of non: SM = Use of D 2.40E+0
Acronyms Indicator PERE PERM	m3 PERE = Use renewable Unit MJ, net CV MJ, net CV	1.09E-01 of renewable primary energy A1-A3 4.07E+01	6.65E-05 imary energy exc y excluding non-r	eluding renewable renewable primary A5 2.81E+00	primary energy re energy resource secondary mate Results pe B1 0.00E+00	3.12E-03 esources used as es used as raw ma erial; RSF = Use o er functional o B2 6.56E-01	raw materials; PE sterials; PENRM = f renew able seco r declared uni B3 0.00E+00	PM = Use of rene Use of non-rene undary fuels; NRS t - yarn weigh B4 0.00E+00	0.00E+00 ev able primary er v able primary en F = Use of non-re t 800-899 g/m B5 0.00E+00	0.00E+00 ergy resources usergy resources userge able second 2 (End of Life B6 0.00E+00	sed as raw materi ed as raw materi ary fuels; FW = U > Recycling) B7 0.00E+00	tals; PERT = Total als; PENRT = Tota se of net fresh wa C1 0.00E+00	use of renewable luse of non-rene er C2 2.48E-02	6.23E-04 e primary energy r ewable primary en C3 1.44E+01	0.00E+00 1.08E-03 esources; PENRI ergy re-sources; C4 5.52E-03	-1.26E-2: 1.11E-01 E = Use of non: SM = Use of D 2.40E+0 0.00E+0
Acronyms Indicator PERE PERM PERT	m3 PERE = Use renewable Unit MJ, net CV MJ, net CV MJ, net CV	1.09E-01 of renewable pre e primary energy A1-A3 4.07E+01 3.60E+00	6.65E-05 imary energy excupexcluding non-second A4 2.48E-02 0.00E+00	A5 2.81E+00 -1.47E+00 1.34E+00	primary energy re- energy resource secondary mate Results pe B1 0.00E+00 0.00E+00	3.12E-03 assources used as as used as raw ma erial; RSF = Use o er functional o B2 6.56E-01 0.00E+00	raw materials; PE terials; PENRM= f renewable seco r declared uni B3 0.00E+00 0.00E+00 0.00E+00	EM = Use of rene Use of non-rener Index fuels; NRS t - yarn weigh B4 0.00E+00 0.00E+00 0.00E+00	0.00E+00 we able primary en wable primary en wable primary en re Use of non-re t 800-899 g/m B5 0.00E+00 0.00E+00	0.00E+00 ergy resources usergy resources usergy resources usered by the second control of the second control o	sed as raw materi ed as raw materi ary fuels; FW = U > Recycling) B7 0.00E+00 0.00E+00	tals; PERT = Total als; PENRT = Total se of net fresh wa C1 0.00E+00 0.00E+00	use of renewable luse of non-rene er C2 2.48E-02 0.00E+00	6.23E-04 primary energy rewable primary en C3 1.44E+01 0.00E+00	0.00E+00 1.08E-03 esources; PENRI ergy re-sources; C4 5.52E-03 0.00E+00	-1.26E-2: 1.11E-01 E = Use of non- ; SM = Use of D 2.40E+0 0.00E+0 2.40E+0
Acronyms Indicator PERE PERM PERT PENRE	m3 PERE = Use renewable Unit MJ, net CV MJ, net CV MJ, net CV MJ, net CV	1.09E-01 of renewable pre primary energy A1-A3 4.07E+01 3.60E+00 4.43E+01 6.30E+01	A4 2.48E-02 0.00E+00 2.48E-02 1.75E+00	A5 2.81E+00 -1.47E+00 1.34E+00 2.10E+00	primary energy resource secondary mate Results pe B1 0.00E+00 0.00E+00 0.00E+00 0.00E+00	3.12E-03 esources used as as used as ray ma orial, RSF = Use or er functional o B2 6.56E-01 0.00E+00 6.56E-01 3.75E+00	raw materials; PE sterials; PENRM = f renewable seco r declared uni B3 0.00E+00 0.00E+00	RM= Use of rene Use of non-rene ndary fuels; NRS t - yarn weigh B4 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 ewable primary en wable primary en wable primary en if = Use of non-re t.800-899 g/m B5 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 ergy resources us ergy resources	sed as raw materiary fuels; FW = U Recycling) B7 0.00E+00 0.00E+00 0.00E+00 0.00E+00	ials: PERT = Total als: PERRT = Total als: PERRT = Total ise of net fresh wa C1 0.00E+00 0.00E+00 0.00E+00	C2 2.48E-02 0.00E+00 2.48E-02 1.76E+00	6.23E-04 e primary energy r ewable primary en C3 1.44E+01 0.00E+00 1.44E+01 8.28E-01	0.00E+00 1.08E-03 esources; PENRI ergy re-sources; C4 5.52E-03 0.00E+00 5.52E-03 1.42E-01	-1.26E-2: 1.11E-01 E = Use of non: SM = Use of D 2.40E+0 0.00E+0 2.40E+0 -1.23E+0
Acronyms Indicator PERE PERM PERT PENRE PENRM	m3 PERE = Use renewable Unit MJ, net CV	1.09E-01 of renewable pre primary energy A1-A3 4.07E+01 3.60E+00 4.43E+01 6.30E+01 6.42E+01	A4 2.48E-02 0.00E+00 2.48E-02 0.00E+00 0.00E+00 0.00E+00	A5 2.81E+00 -1.47E+00 1.34E+00	primary energy re- energy resource secondary mate Results pe B1 0.00E+00 0.00E+00 0.00E+00	3.12E-03 esources used as so used as ray ma orial RSF = Use or er functional o B2 6.56E-01 0.00E+00 6.56E-01 3.75E+00 0.00E+00	raw materials; PE NEM= fereivals; PENEM= frenevable seco r declared uni B3 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	EM = Use of rene Use of non-rene undary fuels; NES L-yarn weigh B4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 ewable primary en wable primary en wable primary en t B00-899 g/m B5 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 ergy resources us erg	sed as ray material sed as ray material sed as ray material sed as ray fuels; FW = U Recycling) B7 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	tals; PERT = Total als; PERT = Total als; PERT = Total se of net fresh wa C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00	cz 2.48E-02 0.00E+00 2.48E-02 1.76E+00 0.00E+00	6.23E-04 e primary energy r ewable primary en C3 1.44E+01 0.00E+00 1.44E+01 8.28E-01 0.00E+00	0.00E+00 1.08E-03 esources; PENRI estgy re-sources; C4 5.52E-03 0.00E+00 5.52E-03 1.42E-01 0.00E+00	-1.26E-2: 1.11E-01 E = Use of non: SM = Use of D 2.40E+0 0.00E+0 2.40E+0 -1.23E+0 2.57E+0
Acronyms Indicator PERE PERM PERT PENRE PENRE PENRM PENRT	m3 PERE = Use renewable Unit MJ, net CV	1.09E-01 of renewable pre e primary energy A1-A3 4.07E+01 3.60E+00 4.43E+01 6.30E+01 1.27E+02	6.65E-05 imary energy exc excluding non-re- A4 2.48E-02 0.00E+00 2.48E-02 1.75E+00 0.00E+00 1.75E+00	A5 2.81E+00 -1.47E+00 1.34E+00 2.10E+00 4.02E+00	Primary energy re- energy resource secondary mate Results pe B1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	3.12E-03 assources used as as used as tay ma erial; RSF = Use o er functional o B2 6.56E-01 0.00E+00 3.75E+00 0.00E+00 3.75E+00	raw materials; PENEM= fereivals; PENEM= fereivable seco r declared uni B3 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	RM= Use of rene Use of non-rene Indary fuels; NRS 1 - yarn weight B4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 ewable primary er wable primary en wable primary	0.00E+00 ergy resources usergy resources	sed as ray materiad as ray materiad as ray materiad sed as ray materiary fuels; FW = U Recycling) B7 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	lals; PERT = Total als; PERT = Total als; PERT = Total se of net fresh wa C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 2.48E-02 0.00E+00 2.48E-02 1.76E+00 0.00E+00 1.76E+00	6.23E-04 e primary energy r evable primary en C3 1.44E+01 0.00E+00 1.44E+01 8.28E-01 0.00E+00 8.28E-01	0.00E+00 1.08E-03 esources; PENRI lengy re-sources; C4 5.52E-03 0.00E+00 5.52E-03 1.42E-01 0.00E+00 1.42E-01	-1.26E-2: 1.11E-01 E = Use of non: :SM = Use of D 2.40E+0 0.00E+0 2.40E+0 2.40E+0 -1.23E+0 2.57E+0 -9.78E+0
Acronyms Indicator PERE PERM PERT PENRE PENRM PENRT SM	m3 PERE = Use renewable Unit MJ, net CV	A1-A3 4.07E+01 3.60E+00 4.43E+01 6.30E+01 1.27E+02 0.00E+00	A4 2.48E-02 0.00E+00 2.48E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	A5 2.81E+00 -1.47E+00 1.34E+00 2.10E+00 4.02E+00 0.00E+00	Primary energy resource secondary mate secondary se	3.12E-03 esources used as es used as raw mariat RSF = Use o er functional o B2 6.56E-01 0.00E+00 6.56E-01 3.75E+00 0.00E+00 0.00E+00 0.00E+00	raw materials: PEE terials: PENPM= f renewable second declared units and the second declared uni	### Use of rene Use of non-rene ### B4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 ev able primary en v	0.00E+00 ergy resources usergy resources	sed as ray material sed as	tals: PERT = Total als: PERT = Total als: PERT = Total se of net fresh wa C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 2.48E-02 0.00E+00 2.48E-02 1.76E+00 0.00E+00 0.00E+00	6.23E-04 e primary energy revable primary en C3 1.44E+01 0.00E+00 1.44E+01 0.00E+00 8.28E-01 0.00E+00 0.00E+00	0.00E+00 1.08E-03 esources; PENRI lergy re-sources; C4 5.52E-03 0.00E+00 5.52E-03 1.42E-01 0.00E+00 1.42E-01 0.00E+00	-1.26E-2: 1.11E-01 E = Use of non-;SM = Use of D 2.40E+0 0.00E+0 2.40E+0 -1.23E+0 2.57E+0 0.00E+0
Acronyms Indicator PERE PERM PENT PENRE PENRM PENRT SM RSF	m3 PERE = Use renewable Unit MJ, net CV	A1-A3 4.07E+01 3.60E+00 4.43E+01 6.30E+01 1.27E+02 0.00E+00 0.00E+00	A4 2.48E-02 0.00E+00 2.48E-02 1.75E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	A5 2.81E+00 -1.47E+00 1.34E+00 2.10E+00 4.02E+00 4.02E+00 0.00E+00 0.00E+00	primary energy re- energy resource secondary mate Results pe B1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	3.12E-03 esources used as su sed as raw me erial; RSF = Use o er functional of B2 6.56E-01 0.00E+00 6.56E-01 3.75E+00 0.00E+00 0.00E+00 0.00E+00	raw materials: PEterials: PENRM= f renewable seco r declared uni B3 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	EM = Use of rene Use of non-rener use of non-rener undary fuels; NRS 1 - yarn weigh B4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 evable primary er vable primary en vable	0.00E+00 ergy resources usergy resources	sed as ray material sed as ray material sed as ray material sed as ray material sed as ray fuels; FW = U Recycling) 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	lals; PERT = Total als; PENRT = Total als; PENRT = Total se of net fresh wall C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 2.48E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	6.23E-04 e primary energy r ewable primary en C3 1.44E+01 0.00E+00 1.44E+01 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 1.08E-03 erources; PENRI ergy re-sources; C4 5.52E-03 0.00E+00 1.42E-01 0.00E+00 0.00E+00 0.00E+00	-1.26E-23 1.11E-01 E = Use of non- (SM = Use of
Acronyms Indicator PERE PERM PENT PENRE PENRM PENRM PENRT SM RSF	m3 PERE = Use renewable Unit MJ, net CV	A1-A3 4.07E+01 3.60E+00 4.43E+01 6.30E+01 1.27E+02 0.00E+00 0.00E+00	A4 2.48E-02 0.00E+00 2.48E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	A5 2.81E+00 -1.47E+00 1.34E+00 2.10E+00 4.02E+00 0.00E+00	Primary energy resource secondary mate secondary se	3.12E-03 esources used as es used as raw mariat RSF = Use o er functional o B2 6.56E-01 0.00E+00 6.56E-01 3.75E+00 0.00E+00 0.00E+00 0.00E+00	raw materials: PEE terials: PENPM= f renewable second declared units and the second declared uni	### Use of rene Use of non-rene ### B4 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.00E+00 ev able primary en v	0.00E+00 ergy resources usergy resources	sed as ray material sed as	tals: PERT = Total als: PERT = Total als: PERT = Total se of net fresh wa C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	C2 2.48E-02 0.00E+00 2.48E-02 1.76E+00 0.00E+00 0.00E+00	6.23E-04 e primary energy revable primary en C3 1.44E+01 0.00E+00 1.44E+01 0.00E+00 8.28E-01 0.00E+00 0.00E+00	0.00E+00 1.08E-03 esources; PENRI lergy re-sources; C4 5.52E-03 0.00E+00 5.52E-03 1.42E-01 0.00E+00 1.42E-01 0.00E+00	-1.26E-23 1.11E-01 E= Use of non- (SM= U
Acronyms Indicator PERE PERM PENT PENRE PENRM PENRT SM RSF NRSF FW	m3 PERE = Use renevable Unit MJ, net CV	1.09E-01 of renewable pre primary energy A1-A3 4.07E-01 3.60E+00 6.30E+01 6.30E+01 1.27E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 frenewable pr	6.65E-05 Imary energy exic excluding non-ri- A4 2.48E-02 0.00E+00 2.48E-02 1.75E+00 0.00E+00	A5 2.81E+00 -1.47E+00 1.34E+00 2.10E+00 1.93E+00 4.02E+00 0.00E+00 0.00E+00 0.00E+00 0.83E-03	primary energy re- energy resources secondary make B1 0.00E+00	3.12E-03 sourcer used as several sets used as raw marint RSF = Use of the set	raw materials; PE raw material	RM= Use of reneral use of non-reneral use of non-re	0.00E+00 eva bble primary en eva bble primary eva bble	0.00E+00 ergy resources us erg	sed as raw makeria ed as raw ma	Ials; PERT = Total als; PERT = Total als; PERST = Total als; PERST = Total se of net fresh with a second of the se	use of renew abiduse of non-renier or C2 2.48E-02 0.00E+00 2.48E-02 1.76E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	6.23E-04 e primary energy r e able primary energy energy energy energy energy	0.00E+00 1.08E-03 esources; PENPIR eegg re-sources; C4 5.52E-03 0.00E+00 5.52E-03 1.42E-01 0.00E+00 0.00E+00 0.00E+00 1.00E+00 1.00E+00	-1.26E-23 1.11E-01 E = Use of non-; SM = Use of non-1.23E+0 -1.23E+0 -1.23E+0 -1.20E-2 -1.42E-2 -1.42E-2 -1.26E-0 -1.26E-0 -1.26E-0
Acronyms Indicator PERE PERM PENT PENRE PENRM PENRT SM RSF NRSF	m3 PERE = Use renevable Unit MJ, net CV	1.09E-01 of renewable pre primary energy A1-A3 4.07E-01 3.60E+00 6.30E+01 6.30E+01 1.27E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 frenewable pr	6.65E-05 Imary energy exic excluding non-ri- A4 2.48E-02 0.00E+00 2.48E-02 1.75E+00 0.00E+00	A5 2.81E+00 -1.47E+00 1.34E+00 4.02E+00 0.00E+00 0.00E+00 3.83E-03	primary energy re- energy resources Results pe B1	3.12E-03 sessuces used as several area mains. IFSF - Use - or extractional of B2 6.56E-01 3.75E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 3.12E-03 sessuces used as several sees several sees as several sees as several sees as several sees as several sees several sees as several sees seve	raw materials; PENRM1 = freme valbe second freme valbe v	RM = Use of rene Use of non-reneral Use of non-rene	0.00E+00 evable primary er ver er e	0.00E+00 ergy resources us erg	sed as raw maker ed as raw maker ed as raw maker ed as raw maker BT 0.00E+00	Ials; PERT = Total als; PERT = Total als; PERST = Total als; PERST = Total se of net fresh with a second of the se	use of renew ability and renew	6.23E-04 e primary energy r e able primary energy energy energy energy energy	0.00E+00 1.08E-03 esources; PENPIR eegg re-sources; C4 5.52E-03 0.00E+00 5.52E-03 1.42E-01 0.00E+00 0.00E+00 0.00E+00 1.00E+00 1.00E+00	-1.26E-2: 1.11E-01 E = Use of non-; SM = Use of
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Acronyms Indicator PERE PERM PERT PENRM PENRT SM RSF NRSF FW Indicator	m3 PERE - Use renewable MJ, net CV	1.09E-01 of renewable preprimary energy A1-A3 4.07E+01 3.60E+00 4.43E+01 6.30E+01 1.27E+02 0.00E+00 0.00E+00 0.00E+00 1.19E-01 of renewable preprimary energy	6.65E-05 Imay energy excluding non-tile A4 2.48E-02 0.00E+00 2.48E-02 1.75E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 imay energy excluding non-tile	A5 A5 2.81E+00 -1.47E+00 1.34E+00 2.10E+00 0.00E+00 0.00E+00 0.00E+00 3.383E+03	primary energy re- energy resources Results pe B1 .0.00E+00	3.12E-03 sourcez used as severe sued as severe sa severe s	raw materials; PENRM's effected specifies; PENRM's for new able second effected specifies; PENRM's for new able second effected specifies; PENRM's effected specifies; PEN	RM = Use of rene Use of non-rener Use of non-rener Use of non-rener Use of non-rener B4 0.00E+00 CRM = Use of renered	0.00E+00 volable primary evaluation with primary evaluation with primary evaluation with primary evaluation of the control of	0.00E+00 long resources using resources resources using resources resources using resources resources resources resources resources resources resources resources resources r	sed as raw maker ed as raw maker ed as raw maker syrtuels; Fw = U Recycling) 87 0.00E+00 88 sed as raw maker dany fuels; Fw = U > Recycling)	lads; PERT = Total als; PERTNET = Total als; PERTNET = Total als; PERTNET = Total conditions of met firesh wa C1 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00	use of renew abid use of non-renewer C2 2.48E-02 0.00E+00	6.23E-04 primary energy revable primary energy en able primary energy en	0.00E+00 1.08E-03 1.08E-03 1.08E-03 C4 5.52E-03 0.00E+00 5.52E-03 1.42E-01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.08E-03 1.08E-03 1.08E-03	-1.26E-2 1.11E-0 E * Use of non SM = Use of non SM = Use of non 2.40E+0 0.00E+0 2.40E+0 -1.23E-7 0.00E+0 -1.26E-2 -1.42E-2 1.26E-0 1.26E-6 1.26E-6 D D
Acronyms Indicator PERE PERM PERM PENRE PENRE PENRE SM RSF FW Acronyms Indicator PERE	M3 PERE - Use renewable MJ, net CV	1.09E-01 of renewable preprinary energy A1-A3 4.07E+01 3.00E+00 4.43E+01 6.30E+01 6.42E+01 1.27E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 of renewable preprinary energy	6.65E-05 Imay energy exit excluding non-riversely experience of the second of the seco	Luding renew able primary A5 2.81E-00 -1.47E-00 1.34E-00 2.10E-00 1.93E-00 4.02E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 A.83E-03 cluding renew able primary	primary energy re- energy resource Results pe B1 0.00E+00 Results pe primary energy resource secondary mate Results pe B1 0.00E+00	3.12E-03 sources used as severed serve mediate RSF = Use o ser functional of B2 6.56E-01 0.00E+00 0.00	raw materials; PENRN1 = freme value secure of ceclared unit B3 0.00E+00 0	ERM = Use of rene Use of non-rene B4 0.00E+00 ERM = Use of rene undary fuels: NRS	0.00E+00 wable primary en F + Use of non-te- 1800-899 gim B5 0.00E+00	0.00E+00 energy resources used to see the second of the s	sed as raw maker ed as raw maker ayr fuelt, FW = U Recycling) B7 0.00E+00	lale; PERIT = Total ale; PENIT = Total ale; PENIT = Total ale; PENIT = Total ce of net fresh wa C1 0.00E+00	use of renew abid uses of non-rene rerectives. C2 2.48E-02 0.00E+00 2.48E-02 1.76E+00 0.00E+00	6.23E-04 primary energy revable primary energy evable primary energy example primary energy ene	0.00E+00 1.08E+03 1.08E+03 0.00E+00 5.52E+03 0.00E+00 1.42E+01 0.00E+00 0.00E+00 0.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	1.26E-2 1.11E-0 1.11E-0 1.11E-0 1.11E-0 1.11E-0 1.12E-0 1.240E+0 1.23E+0 1.25E-0 1.26E-0
FW Acronyms Indicator PERE PERM PERT PENRE PENRE PENRM RSF NRSF FW Acronyms Indicator PERE PERM	M3 PERE = User renewable MJ, net CV	1.09E-01 of renewable pre primary energy A1-A3 4.07E-01 3.60E-00 4.43E+01 6.42E-01 1.27E-02 0.00E+00 0.00E+00 0.00E+00 1.19E-01 of renewable pre primary energy A1-A3 4.46E-01 3.59E+00	A4 2.48E-02 0.00E-00 1.75E+00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 A65E-05 imany energy exceeding non-rich state of the control of the con	A5 2.81E+00 -1.47E+00 1.34E+00 2.10E+00 0.00E+00 0.00E+00 0.00E+00 3.83E+03 3.83E+03	primary energy re- energy resources Results pe B1 0.00E+00	3.12E-03 sources used as severe services as severe services as severe services as severe services serv	raw materials; PENIN1 = freme able second of the freme able second of t	ERM = Use of rene Use of son r	0.00E+00 wa able primary en was primary en was primary en F « Use of non-ret 1800-899 gram B5 0.00E+00	0.00E+00 engy resources used to see the see t	sed as raw makes ed as raw makes ed as raw makes ed as raw makes Provided Provided 0.000=+00	lade; PERT = Total ale; PERTE = Total ale; PERTE = Total ale; PERTE = Total ce of net fresh wa C1 0.00E+00	use of renew able luse of non-rene er C2 2.48E-02 0.00E+00 2.48E-02 1.76E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 C5 C2 C2 C2 C2 C2 C3 C4 C4 C4 C5 C5 C5 C5 C5 C5 C6 C7 C7 C7 C7 C7 C7 C7 C7 C7	6.23E-04 primary energy; verable primary energy; verab	0.00E+00 1.08E-03 1.08E-03 1.08E-03 C4 5.52E-03 0.00E+00 5.52E-03 1.42E-01 0.00E+00	1.26E-2 1.11E-0: 1.11E-0: 1.11E-0: 1.11E-0: 1.11E-0: 1.12E-0: 1.20E-0: 1.20
FW Acronyms Indicator PERE PERM PERT PENRE PENRM PENRT SM RSF FW Acronyms Indicator PERE PERE PERM PERE PERE PERE PERE PERE	M3 PERE - Use renewable MJ, net CV MJ MJ, net CV MJ MJ, net CV MJ MJ, net CV	1.09E-01 1.09E-01 A1-A3 4.07E+01 3.00E+00 4.43E+01 6.30E+01 6.42E+01 1.77E+02 0.00E+00 0.00E+00 1.19E-01 0.19E-01 A1-A3 4.46E-01 A1-A3 4.46E-01 4.5E-01	6.65E-05 Imay energy exervised in process of the second in process of t	A5 281E-00 -1.47E+00 1.34E-0 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.35E-03 40E-00 4.25E-00	primary energy in energy re- energy resource secondary materials. B1 0.00E+00	3.12E-03 sources used as severe services as severe services as severe services servi	raw materials; PENRY1- reventals; PENRY1- reventals	ERM = Use of rend Use of loon-rend Use o	0.00E+00 wa able primary en was primary en F = Use of non-ref s Use of no	0.00E+00 ergy resources us grown of the proposed of the propos	sed as raw maker ed as raw maker ed as raw maker as y fowls: FW - U Recycling) B7 0.00E+00	lade; PERT = Total als; PERTS = Total als; PERTS = Total als; PERTS = Total co of net fresh was C1 0.00E+00	use of renew able luse of non-rene renew able luse of non-rene rene renew able 100 to	6.23E-04 ppimasy energy in energy in each primasy energy energ	0.00E+00 1.08E+03 1.08E+03 0.00E+00 5.52E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.0E+00 0.00E+00	-1.26E-2 1.11E-0 E - Use of none; SM= Us
Indicator PERE PERM PENTS SM RSF NRSF FW Acronyms Indicator PERE PERM PERE PERM PERE PERM PERE PERM PERE	m3 PERE - User renewable MJ, net CV	1.09E-01 of renewable pc primary energy A1-A3 4.07E-01 3.06E+00 6.30E+01 6.27E-01 1.27E-02 0.00E+00 0.00E+00 0.00E+01 of renewable pc primary energy A1-A3 4.46E-01 3.59E+00 4.82E+01 6.54E+01	A4 2.48E-02 0.00E+00 1.75E-00 0.00E+00	A5 281E-00 -1.47E-00 1.34E-00 2.10E-00 1.93E-00 4.02E-00 0.00E-00 0.00E-00 0.00E-00 3.83E-03 budng renewable primary A5 2.93E+00 -1.47E-00 1.45E-00	primary energy re- energy resources Results pe B1 0.00E+00	3.12E-03 sociates used as re- productional of B2 6.56E-01 0.00E-00 3.75E-00 0.00E-00 3.75E-01 0.00E-00 3.12E-03 3.12E-03 3.12E-03 6.56E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00	raw materials; PENRM* = reversite; PENRM* = rever	ERM = Use of rene Use of non-rener B4 0.00E+00	0.00E+00 wa labe primary en waller primary en	0.00E+00 energy resources us region resources region	sed as raw maker ed as traw maker ed as traw maker BY 0.00E+00	lade; PERT = Total als: PERTE =	use of renew able luse of non-rene ere ere ere ere ere ere ere ere ere	6.23E-04 primary energy revealed primary energy reveal	0.00E+00 1.08E-03 1.08E-03 C4 5.52E-03 0.00E+00 5.52E-03 1.42E-01 0.00E+00 5.52E-03 0.00E+00 5.52E-03	-1.26E-2 1.11E-0 E - Use of now; SM= Use of no
Indicator PERE PERM PENRE PENRE PENRE PENRE NRSF FW Acronyms Indicator PERE Indicator PERE PERE PERE PERE PERE PERE PERE PER	M3 PERE - Use renewable MJ, net CV	1.09E-01 of renew able ps e primary energy A1-A3 4.07E+01 3.00E+01 6.30E+01 6.30E+01 6.27E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 A1-A3 4.46E+01 3.59E+01 4.82E+01 6.54E+01 6.54E+01	A4 2.48E-02 0.00E-00	A5 2.81E+00 -1.47E+00 1.34E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.34E+00 0.00E+00 0.00E+00 1.35E+00 1.47E+00 1.45E+00 1.45E+00 1.45E+00	primary energy re- energy resources B1 0.00E+00	3.12E-03 sources used as severe services as severe services as severe services servi	rew materials; PEPNRY1- reweals; PENRY1- remeals be record 0.00E+00	ERM = Use of rene	0.00E+00 wa able primary en was en many en	0.00E+00 ergy resources us regy resources us re	sed as raw material and a raw material and a raw material and a raw material and a raw flower. Fe' – Company (1994) — Security (1994) — Se	lade; PERT = Total als; PENTS = Tota als; PENTS = Tota to e of net fresh wa C1 0.00E+00	use of renew able luse of non-renew renew able luse of non-renew renew r	6.23E-04 ppimary energy reader primary energy revailed	0.00E+00 1.08E-03 1.08E-03 0.00E+00 5.52E-03 0.00E+00	1.26E-2 1.11E-0 1.11E-
Indicator PERE PERM PENNT SM RSF FW Acronyms Indicator PERE PENRT SM RSF FW Indicator PERE PERE PERE PERE PERE PERE PERE PER	m3 PERE - User renewable Unit MJ. net CV	1.09E-01 of renewable pre primary energy A1-A3 4.07E-01 3.60E-00 6.30E-01 6.2E-01 1.27E-02 0.00E-00 0.00E-00 0.00E-00 1.19E-01 of renewable pre primary energy A1-A3 4.46E-01 3.59E-00 4.82E-01 6.54E-01 6.54E-01 6.54E-01	A4 2.48E-02 0.00E+00 1.75E+00 0.00E+00 1.75E+00 0.00E+00 1.75E+00 0.00E+00	Luding renew able primary A5 2.81E-00 -1.47E-00 1.34E-00 2.10E-00 1.33E-00 4.02E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 3.83E-03 -0.04ding renew able primary	primary energy re- energy resources Results pe B1 0.00E+00	3.12E-03 sources used as every series (SE) = Use o er functional o B2 6.56E-01 0.00E-00 0.00E-00 0.00E-00 0.00E-00 0.00E-00 3.12E-03 3.12E-03 8.22 6.56E-01 0.00E-00	raw materials; PENRM's remarked is perfected in the perfect of the	ERM = Use of rend Use of lonor-tener Use of lonor-t	0.00E+00 avable primary en F = Use of non-ref BBS 0.00E+00	0.00E+00 engpiresources user support of the properties of the prop	sed as raw maker ed as traw maker ed as traw maker ay fuels: FW = V > Recycling) 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 > .00E+00 > .00E+00 > .00E+00 > .00E+00 > .00E+00 0.00E+00	lade; PERT = Total als; PERTS =	use of renew able luse of non-renew ever ever ever ever ever ever ever ev	6.23E-04 primary energy revable primary energy en	0.00E+00 1.08E+03 1.08E+03 0.00E+00 5.52E+03 0.00E+00 1.42E+01 0.00E+00 1.42E-01 0.00E+00 0.00E+00 1.42E-01 0.00E+00 1.42E-01 0.00E+00	-1.26E-2 E-1.26E-1 E-1.26E-1 D D 2.40E+C 0.00E+C 2.40E+C -1.22E-1 -1.26E-0 -1.26E-0 D D 2.68E+0 0.00E+C -1.20E-1 -1.26E-0 -1.35E+0 0.00E+C -1.20E-1 -1.26E-0 -1.35E+0 0.00E+C -1.20E-1 -1.26E-0 -1.35E+0 0.00E+C -1.35E+0 -1.35E+0 -1.35E+0 -1.35E+0 -1.35E+0 -1.04E-0
FW Acronyms Indicator PERE PERT PENRE PENRT SM PENRT SM Acronyms Indicator PERE PERE PERE PERE PERE PERE PERE PENRE PERE PE	M3 PERE - User renewable MJ, net CV	1.09E-01 of renewable pre primary energy A1-A3 4.07E+01 3.00E+00 4.43E+01 1.27E+02 0.00E+00 0.00E+00 0.00E+00 1.19E-01 of renewable pre primary energy A1-A3 4.46E+01 3.59E+00 4.82E+01 6.54E+01 1.33E+02 1.33E+02 0.00E+00	A4 2.48E-02 0.00E+00 1.75E+00 0.00E+00 2.48E-02 1.75E+00 0.00E+00	A5 2.91E+00 1.47E+00 1.34E+00 0.00E+00 0.00E+00 0.00E+00 1.47E+00 1.38E+01 4.02E+00 1.38E+03 1.40E+00 1.40E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.45E+00 1.45E+00 2.17E+00 2.02E+00 4.19E+00 0.00E+00	primary energy re- energy resources ener	3.12E-03 sources used as severed save was serial RSF - Use of Save was save	rew materials; PEPRPIN	EM = Use of rene Use of non-rene use use Use of non-rene use use use use use use use use use us	0.00E+00 wa bab primary en was be primary en was be primary en	0.00E+00 ergy resources us regy resources us re	sed as raw material and a set of the set of	lade; PERT = Total side; PERT = Total side; PERT = Total side; PERT = Total ce of net fresh wa C1 0.00E+00	use of renew ability and renew	6.23E-04 primary energy; energy; we able primary energy; energ	0.00E+00 1.08E-03 1.08E-03 1.08E-03 1.08E-03 5.52E-03 0.00E+00 5.52E-03 1.42E-01 0.00E+00	1.26E-2 1.11E-0 E - Use of non SM= Use of non CSM= Use of non CSM= Use of non CSM= Use of non CSM= Use of non E - Use of non CSM= Use of non C
Indicator PERE PERM PENRE PENRM PENRE PENRM PENRE SM RSF NRSF FW Acronyms Indicator PERE PERM PERM PERM PERM PENRE PENRM PENRE SM RSF SW RSF SW RSF SW RSF SW RSF SW RSF SW RSF	M3 PERE - Use renewable MJ, net CV	1.09E-01 of renew able pr primary energy A1-A3 4.07E+01 3.00E+00 4.43E+01 6.30E+01 6.30E+01 6.30E+00 0.00E+00 0.00E+00 0.00E+00 4.2E-01 A1-A3 4.46E-01 3.59E-00 4.52E-01 6.54E-01 6.74E-01 1.33E-02 0.00E+00 0.00E+00	A4 2.48E-02 0.00E+00	A5 281E-00 -1.47E+00 1.34E+00 2.10E+00 0.00E+00 0.00E+00 3.83E-03 0.0udng preevable primary A5 2.93E+00 -1.47E+00 2.17E+00 2.17E+00 2.17E+00 2.17E+00 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 re- energy resources B1 0.00E+00	3.12E-03 sources used as severe series less? - Use os series series - Use os series less? - Use os series les	raw materials; PENRM1 = from white security for from white from white from white from white from white from white security for from white from	ERM = Use of rend Use of loon-rend Use o	0.00E+00 wa be primary or when primary or F = Use of non-ref (100-100) and (100-100)	0.00E+00 energy resources us registered to the second of the B6 0.00E+00	sed as raw maker ed as raw maker ed as raw maker ed star aw maker BY NOBE-00 0.00E-00	Idal: PERT = Total als: PENT = Total als: PENT = Total als: PENT = Total condition = Total als: PENT =	use of renew able luse of non-rene or every control of the control	6.23E-04 ppimary energy in energy in a primary energy in a construction of the constru	0.00E+00 1.08E+03 1.08E+03 0.00E+00 5.52E+03 0.00E+00 1.42E+01 0.00E+00	1.26E-2: 1.1E-01 1.1E-01 1.1E-01 1.1E-01 1.2E-04 1.2E-
Acronyms Indicator PERE PERM PERT PENRE PENRT SM RSF NRSF FW Acronyms Indicator PERE PERM PERT PERE PERM PERT PERE PERM PERT PENRT SM RSF PENRT SM RSF PENRT SM RSF PENRT	M3 PERE - User renewable MJ, net CV, MJ, n	1.09E-01 of renewable pt primary energy A1-A3 4.07E-01 3.00E+00 4.43E+01 1.27E+02 0.00E+00 0.00E+00 0.00E+01 of renewable pt primary energy A1-A3 4.46E-01 3.59E+00 4.82E+01 6.74E+01 1.33E+02 0.00E+00 0.00E+00 0.00E+00	A4 2.48E-02 0.00E-00 1.75E-00 0.00E-00	A5 2.81E-00 -1.47E-00 1.34E-00 2.10E-00 1.93E-00 4.02E-00 0.00E-00 0.00E-00 0.00E-00 1.45E-00 1.45E-00 2.02E-00 0.00E-00	primary energy re- energy resources Results pe B1 0.00E+00	3.12E-03 socioces used as severed services use	raw materials; PENRN1 = freme value section FENRN1 = freme value FENRN1 = freme value	ERM = Use of rene Use of non-rener B4 0.00E+00	0.00E+00 wa bab primary er sole primary er so	0.00E+00 engry resources us regressioned to the proposed to t	sed as raw maker ed as traw maker ed as traw maker BY 0.00E+00	Idal: PERT = Total Idal: PERT =	Lase of renew able luses of renew able luses of non-renew ever every luses of non-renew every luses of non-renew every luses of non-renew able luses of non-renew able luses of non-renew able luses of non-renew every lust of non-renew	6.23E-04 primary energy revable primary energ	0.00E+00 1.08E-03 1.08E-03 C4 5.52E-03 0.00E+00 5.52E-03 1.42E-01 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+01	1.26E-2: 1.11E-01 1.1
Acronyms Indicator PERE PERM PENRE PENRE PENRT SM RSF NRSF FW Acronyms Indicator PERE PERM PERE PERM PERT SM ACRONYMS	M3 PERE - Use renewable MJ, net CV	1.09E-01 of renew able pr primary energy A1-A3 4.07E+01 3.00E+00 4.43E+01 6.30E+01 6.30E+01 6.30E+00 0.00E+00 0.00E+00 0.00E+00 4.2E-01 A1-A3 4.46E-01 3.59E-00 4.52E-01 6.54E-01 6.74E-01 1.33E-02 0.00E+00 0.00E+00	A4 2.48E-02 0.00E+00	A5 281E-00 -1.47E+00 1.34E+00 2.10E+00 0.00E+00 0.00E+00 3.83E-03 0.0udng preevable primary A5 2.93E+00 -1.47E+00 2.17E+00 2.17E+00 2.17E+00 2.17E+00 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 re- energy resources B1 0.00E+00	3.12E-03 sources used as severe series less? - Use os series series - Use os series less? - Use os series les	raw materials; PENRM1 = from white security for from white from white from white from white from white from white security for from white from	ERM = Use of rend Use of loon-rend Use o	0.00E+00 wa be primary or when primary or F = Use of non-ref (100-100) and (100-100)	0.00E+00 energy resources us registered to the second of the B6 0.00E+00	sed as raw maker ed as raw maker ed as raw maker ed star aw maker BY NOBE-00 0.00E-00	Idal: PERT = Total als: PENT = Total als: PENT = Total als: PENT = Total condition = Total als: PENT =	use of renew able luse of non-rene or every control of the control	6.23E-04 ppimary energy in energy in a primary energy in a construction of the constru	0.00E+00 1.08E+03 1.08E+03 0.00E+00 5.52E+03 0.00E+00 1.42E+01 0.00E+00	1.26E-23 1.11E-01 E = Use of non- SM = Use of non- SM = Use of non- SM = Use of non- 2.40E+0 0.00E+0 2.57E+0 -1.23E+0 0.00E+0 1.20E-2 1.26E-0 1.26E-0 E = Use of non- SM = Use of



Waste production and output flows

					Results pe	er functional o	r declared uni	t - yarn weigh	t 400-499 g/m	2 (End of Life	-> Recycling)					
Indicator	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	В7	C1	C2	СЗ	C4	D
Hazardous waste	kg	5.32E-01	1.27E-03	1.97E-02	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	1.47E-02	1.81E-02	-3.71E-01
disposed Non- hazardous waste disposed	kg	1.44E+00	1.01E-01	1.82E-01	0.00E+00	5.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-01	2.16E-01	7.39E-03	-5.06E-01
Radioactive waste disposed	kg	1.95E-04	1.19E-05	7.01E-06	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	2.25E-06	3.22E-07	-5.54E-04
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	2.98E-01	0.00E+00	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E+00	6.75E-01	1.74E-01
Materials for energy recovery	kg	8.22E-02	0.00E+00	1.16E-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	3.19E-01	0.00E+00
Exported energy, electricity	MJ	1.55E+00	0.00E+00	4.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-01
					Results pe	r functional o	r declared uni	t - yarn weigh	t 500-599 g/m	2 (End of Life	> Recycling)					
Indicator	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	С3	C4	D
Hazardous waste disposed	kg	5.32E-01	1.27E-03	1.99E-02	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	1.47E-02	1.81E-02	-3.71E-01
Non- hazardous waste disposed	kg	1.50E+00	1.01E-01	1.84E-01	0.00E+00	5.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-01	2.16E-01	7.39E-03	-4.29E-01
Radioactive waste disposed	kg	2.11E-04	1.19E-05	7.52E-06	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	2.25E-06	3.22E-07	-6.54E-04
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	3.26E-01	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	2.87E+00	6.75E-01	2.09E-01
Materials for energy recovery	kg	8.21E-02	0.00E+00	1.19E-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	3.19E-01	0.00E+00
Exported energy, electricity	MJ	1.86E+00	0.00E+00	5.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-01
					Results pe	r functional o	r declared unit	t - yarn weight	t 600-699 g/m	2 (End of Life -	> Recycling)					
Indicator	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	5.32E-01	1.27E-03	2.00E-02	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	1.47E-02	1.81E-02	-3.70E-01
Non- hazardous waste disposed	kg	1.57E+00	1.01E-01	1.86E-01	0.00E+00	5.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-01	2.16E-01	7.39E-03	-3.53E-01
Radioactive waste disposed	kg	2.28E-04	1.19E-05	8.02E-06	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	2.25E-06	3.22E-07	-7.53E-04
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	3.54E-01	0.00E+00	1.11E-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	0.00E+00	2.97E+00	6.75E-01	2.44E-01
Materials for energy recovery	kg	8.20E-02	0.00E+00	1.22E-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	3.19E-01	0.00E+00
Exported energy, electricity	MJ	2.17E+00	0.00E+00	6.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-01



					Docults ::	r function=' -	r doolored	t worn we'r'	+ 700 700	2 /End of Life	> Doguelis = 1					
Indicator	II-i4	14.12		45					t 700-799 g/m	_		C4	C2	C2	C4	D
Indicator Hazardous	Unit	A1-A3	Α4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
waste disposed	kg	5.31E-01	1.27E-03	2.02E-02	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	1.47E-02	1.81E-02	-3.70E-01
Non- hazardous waste disposed	kg	1.63E+00	1.01E-01	1.87E-01	0.00E+00	5.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-01	2.16E-01	7.39E-03	-2.76E-01
Radioactive waste disposed	kg	2.45E-04	1.19E-05	8.53E-06	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	2.25E-06	3.22E-07	-8.53E-04
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	3.82E-01	0.00E+00	1.11E-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	0.00E+00	3.07E+00	6.75E-01	2.79E-01
Materials for energy recovery	kg	8.19E-02	0.00E+00	1.25E-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	3.19E-01	0.00E+00
Exported energy, electricity	MJ	2.48E+00	0.00E+00	7.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-01
					Results pe	er functional o	declared uni	t - yarn weigh	t 800-899 g/m.	2 (End of Life -	> Recycling)					
Indicator	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	5.31E-01	1.27E-03	2.04E-02	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	1.47E-02	1.81E-02	-3.70E-01
Non- hazardous waste disposed	kg	1.69E+00	1.01E-01	1.89E-01	0.00E+00	5.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-01	2.16E-01	7.39E-03	-1.99E-01
Radioactive waste disposed	kg	2.61E-04	1.19E-05	9.03E-06	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	2.25E-06	3.22E-07	-9.52E-04
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	4.10E-01	0.00E+00	1.12E-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	3.17E+00	6.75E-01	3.13E-01
Materials for energy recovery	kg	8.17E-02	0.00E+00	1.28E-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	3.19E-01	0.00E+00
Exported energy, electricity	MJ	2.78E+00	0.00E+00	8.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-01
					Results per	r functional or	declared unit	- yarn weight	900-999 g/m2	? (End of Life →	Recycling)					
Indicator	Unit	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	5.31E-01	1.27E-03	2.05E-02	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	1.47E-02	1.81E-02	-3.69E-01
Non- hazardous waste disposed	kg	1.75E+00	1.01E-01	1.91E-01	0.00E+00	5.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-01	2.16E-01	7.39E-03	-1.23E-01
Radioactive waste disposed	kg	2.77E-04	1.19E-05	9.53E-06	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	2.25E-06	3.22E-07	-1.05E-03
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	4.38E-01	0.00E+00	1.13E-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	3.27E+00	6.75E-01	3.48E-01
Materials for energy recovery	kg	8.16E-02	0.00E+00	1.31E-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	3.19E-01	0.00E+00
Exported energy, electricity	MJ	3.09E+00	0.00E+00	9.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-01

Information on biogenic carbon content

Results per functional or declared unit												
BIOGENIC CARBON CONTENT	Unit	QUANTITY										
BIOGENIC CARBON CONTENT	Offic	400-499	500-599	600-699	700-799	800-899	900-999					
Biogenic carbon content in product	kg C	5.77E-03	6.65E-03	7.53E-03	8.41E-03	9.29E-03	1.02E-02					
Biogenic carbon content in packaging	kg C	1.09E-03										

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂.



References

General Programme Instructions of the International EPD® System. Version 3.01. PCR 2019:14. Version 1.11 c-PCR-004 Resilient, textile and laminate floor coverings (EN 16810).

