ENVIRONMENTAL PRODUCT DECLARATION

as per /ISO 14025/ and /EN 15804/

Owner of the Declaration	Tarkett BV
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-DES-20180079-CCA1-EN
Issue date	07.06.2018
Valid to	06.06.2023

Tufted carpet tiles, maximum total pile material 900 g/m² polyamide 6, with 0% recycled content, solution dyed yarn, modified bitumen backing

DESSO[®]



www.ibu-epd.com / https://epd-online.com





General Information

DESSO®

Programme holder

IBU - Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany

Declaration number

EPD-DES-20180079-CCA1-EN

This declaration is based on the product category rules: Floor coverings, 02/2018 (PCR checked and approved by the SVR)

Issue date

07.06.2018

Valid to 06.06.2023

Wermanes

Prof. Dr.-Ing. Horst J. Bossenmayer (President of Institut Bauen und Umwelt e.V.)

Mann

Dr. Burkhart Lehmann (Managing Director IBU)

Product

Product description / Product definition

Tufted carpet tiles having a surface pile of solution dyed polyamide 6 and a modified bitumen backing. The recycled content amounts to a minimum 30% of the total weight. Availability of recycled content is expected to raise over time. Check actual values with Desso.

The declaration applies to a group of products with a maximum total pile weight of 900 g/m².

The LCA results are calculated for products with the maximum total pile weight.

LCA results for product groups having a lower total pile weight can be taken from the corresponding tables of the annex. The LCA results always refer to the

Tufted carpet tiles, max. total pile material 900 g/m² solution dyed polyamide 6, modified bitumen backing

Owner of the declaration

Tarkett BV Taxandriaweg 15 5142 PA Waalwijk, The Netherlands

Declared product / declared unit

1 m² tufted carpet tiles with a surface pile of solution dyed polyamide 6 and a modified bitumen backing

Scope:

The manufacturer declaration applies to a group of similar products with a maximum total pile weight of 900 g/m^2 .

The products are manufactured in the production site Dendermonde, Belgium (tufting), and in Waalwijk, The Netherlands (back coating).

LCA results for product groups having a lower total pile weight can be taken from the corresponding tables of the annex. Specific data can be calculated by using equation 1 given in the annex (see annex chapter: 'General Information on the annex').

The declaration is only valid in conjunction with a valid GUT-/PRODIS/ license of the product.

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Verification

The standard /EN 15804/ serves as the core PCR Independent verification of the declaration and data according to /ISO 14025:2010/

internally x externally

Schindle

Angela Schindler (Independent verifier appointed by SVR)

highest total pile weight of the corresponding pile weight category.

Results for similar products with any other total pile weight can be calculated by using equation 1 given in the annex (see annex chapter: 'General Information on the annex').

For the placing on the market of the product in the EU/EFTA (with the exception of Switzerland) Regulation (EU) No. 305/2011 /CPR/ applies. The Declaration of Performance of the products taking into consideration /EN 14041/ and the CE-marking of the products can be found on the manufacturer's technical information section.



Application

According to the use class as defined in /EN 1307/ the products can be used in all commercial areas which require class 33 or less

Technical Data

Name	Value	Unit
Product Form	carpet tiles or slabs,	
	several dimensions	-
Type of manufacture	tufted tiles	-
Yarn type	solution dyed polyamide 6	-
Dealing	bitumen-based	
Backing	heavy backing	-
Total pile weight	max. 900	g/m²
Total carpet weight	max. 4455	g/m ²

Additional product properties in accordance with /EN 1307/ and performance data of the product in accordance with the Declaration of Performance with respect to its Essential Characteristics according to /EN 14041/ can be found on the Product Information System /PRODIS/ using the /PRODIS/ registration number of the product (www.pro-dis.info) or on the manufacturer's technical information section (www.desso.com).

Base materials / Ancillary materials

Name	Value	Unit
Polyamide 6	20.2	%
Polyester	2.7	%
Polypropylene	1.0	%
Limestone	53.1	%
Aluminium hydroxide	4.3	%
Bitumen	11.6	%
Latex	6.0	%
Glass fibre	0.7	%
Additives	0.4	%

The products are registered in the GUT-/PRODIS/ Information System. The /PRODIS/ system ensures the compliance with limitations of various chemicals and VOC-emissions and a ban on use of all substances that are listed as 'Substances of Very High Concern' (SVHC) under /REACH/. The tiles are Cradle to Cradle[®] Bronze Level certified and the details can be found on www.C2C-certified.org

Reference service life

A calculation of the reference service life according to /ISO 15686/ is not possible.

The service life of textile floor coverings strongly depends on the correct installation taking into account the declared use classification and the adherence to cleaning and maintenance instructions. A minimum service life of 10 years can be assumed, technical service life can be considerably longer.

LCA: Calculation rules

Declared Unit

Name	Value	Unit
Declared unit	1	m²
Conversion factor to 1 kg	0.22	-
Mass reference	4.455	kg/m²

The declared unit refers to 1 m² produced textile floor covering. Output of module A5 'Assembly' is 1 m² installed textile floor covering.

System boundary

Type of EPD: Cradle-to-grave

System boundaries of modules A, B, C, D:

A1-A3 Production:

Energy supply and production of the basic material, processing of secondary material, auxiliary material, transport of the material to the manufacturing site, emissions, waste water treatment, packaging material and waste processing up to the landfill disposal of residual waste (except radioactive waste). Benefits for generated electricity and steam due to the incineration of production waste are aggregated.

A4 Transport:

Transport of the packed textile floor covering from factory gate to the place of installation.

A5 Installation:

Installation of the textile floor covering, processing of installation waste and packaging waste up to the landfill disposal of residual waste (except radioactive waste), the production of the amount of carpet that occurs as installation waste including its transport to the place of installation.

Generated electricity and steam due to the incineration of waste are listed in the result table as exported energy.

Preparing of the floor and auxiliary materials (adhesives, fixing agents, PET connectors) are beyond the system boundaries and not taken into account.

<u>B1 Use:</u>

Indoor emissions during the use stage. After the first year, no product related VOC emissions are relevant due to known VOC decay curves of the product.



B2 Maintenance:

Cleaning of the textile floor covering for a period of 1 year:

Vacuum cleaning - electricity supply

Wet cleaning – electricity, water consumption, production of the cleaning agent, waste water treatment.

The declared values in this module have to be multiplied by the assumed service life of the floor covering in the building in question (see annex, chapter 'General information on use stage').

B3 - B7:

The modules are not relevant and therefore not declared.

C1 De-construction:

The floor covering is de-constructed manually and no additional environmental impact is caused.

C2 Transport:

Transport of the carpet waste to a landfill, to the municipal waste incineration plant (MWI) or to the waste collection facility for recycling.

C3 Waste processing:

C3-1: Landfill disposal need no waste processing. C3-2: Impact from waste incineration (plant with R1>0.6), generated electricity and steam are listed in the result table as exported energy. C3-3: Collection of the carpet waste for recovery in the cement industry, waste processing (granulating). C4 Disposal

C4-1: Impact from landfill disposal,

C4-2: The carpet waste leaves the system in

module C3-2,

C4-3: The pre-processed carpet waste leaves the system in module C3-3 $\,$

D Recycling potential:

D-A5: Benefits for generated energy due to incineration of packaging and installation waste (incineration plant with R1 > 0.6),

D-1: Benefits for generated energy due to landfill disposal of carpet waste at the end-of-life,

D-2: Benefits for generated energy due to incineration of carpet waste at the end-of-life (incineration plant with R1 > 0.6),

D-3: Benefits for saved fossil energy and saved inorganic material due to recovery of the carpet in a cement plant at the end-of-life, transport from the reprocessing plant to the cement kiln.

Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to /EN 15804/ and the building context, respectively the product-specific characteristics of performance, are taken into account.

. Background data are taken from the /GaBi database 2018/, service pack 35 and from the /ecoinvent 3.3/ database.

LCA: Scenarios and additional technical information

The following information refer to the declared modules and are the basis for calculations or can be used for further calculations. The indicated values refer to the declared functional unit of all products with a total pile weight up to 900 g/m².

Name	Value	Unit
Litres of fuel (LKW, Euro 0-6 Mix)	0.0075	l/100km
Transport distance	700	km
Capacity utilisation (including empty runs)	85	%

Installation in the building (A5)

Name	Value	Unit
Material loss	0.13	kg
	4 11 41	

Polyethylene packaging waste and installation waste are considered to be incinerated in a municipal waste incineration plant. Cardboard packaging waste is going to be recycled.

Preparation of the floor and auxiliaries (adhesives, fixing agents, etc.) are not taken into account.

Maintenance (B2)

Indication per m² floor covering and per year. Depending on the application based on EN ISO 10874, the technical service life recommended by the manufacturer and the anticipated strain on the floor by customers, the case-specific useful life can be established. The effects of Module B2 need to be calculated on the basis of this useful life in order to obtain the overall environmental impacts (see annex, chapter 'General Information on use stage').

Name	Value	Unit
Maintenance cycle (wet cleaning)	1.5	1/year
Maintenance cycle (vacuum cleaning)	208	1/year
Water consumption (wet cleaning)	0.004	m ³
Cleaning agent (wet cleaning)	0.09	kg
Electricity consumption	0.314	kWh

Further information on cleaning and maintenance see <u>www.desso.com</u>

End-of-life (C1-C4)

Three different end-of-life scenarios are declared and the results are indicated separately in module C.

Each scenario is calculated as a 100% scenario. Scenario 1: 100% landfill disposal

Scenario 2: 100% municipal waste incineration (MWI) with R1>0.6

Scenario 3: 100% recovery in the cement industry

If combinations of these scenarios have to be calculated this should be done according to the following scheme:

EOL-impact = x% impact (Scenario 1)

+ y% impact (Scenario 2)

+ z% impact (Scenario 3)

Name	Value	Unit
Collected as mixed construction waste (scenario 1 and 2)	4.455	kg
Collected separately (scenario 3)	4.455	kg
Landfilling (scenario 1)	4.455	kg
Energy recovery (scenario 2)	4.455	kg
Energy recovery (scenario 3)	1.86	kg



 Recycling (scenario 3)
 2.6
 kg

 Reuse, recovery and/or recycling potentials (D), relevant scenario information
 (D), relevant scenario

Recovery or recycling potentials due to the three endof-life scenarios (module C) are indicated separately.

<u>Recycling in the cement industry (scenario 3)</u> The organic material of the carpet is used as secondary fuel in a cement kiln. It mainly substitutes for lignite (62.2%), hard coal (27.3%) and petrol coke (10.5%) /VDZ e.V./.

The inorganic material is substantially integrated in the cement clinker and substitutes for original material input.



LCA: Results

The results are valid for all declared products with a maximum total pile weight of 900 g/m².

LCA results for product groups having a lower total pile weight can be taken from the corresponding tables of the annex. The LCA results always refer to the highest total pile weight of the corresponding pile weight category. Results for similar products with any other total pile weight can be calculated by using equation 1 given in the annex (see annex chapter: 'General Information on the annex').

The declared result figures in module B2 have to be multiplied by the assumed service life (in years) of the floor covering in the building under consideration (see annex, chapter 'General Information on use stage').

Information on un-declared modules: Modules B3 - B7 are not relevant during the service life of the carpet and are therefore not declared. Modules C1, C3/1, C4/2 and C4/3 cause no additional impact (see "LCA: Calculation rules") and are therefore not declared. Module C2 represents the transport for scenarios 1, 2 and 3. Column D represents module D/A5.

| | Sents |

 | | | FM BO |
 | (X = | INCLU | |
 | | мор | ULE | NOT
 | | RED) |
|--|---
--
--
--	--	---	--
--	---	---	---
---	--	--	
DECC			

 | | | | ONDAI
 | XI (X – | INCLU | |
 | | mob | |
 | | TTS AND |
| PROE | OUCT S | TAGE

 | ON PR | RUCTI
OCESS
AGE | SS USE STAGE END OF LIFE STAGE |
 | | | |
 | LC
BEYO
SYS | ADS
ND THE
STEM
IDARIES | |
 | | |
| Raw material
supply | Transport | Manufacturing

 | Transport from the gate to the site | Assembly | Use | Maintenance
 | Replacement | Refurbishment | Operational energy
use | Operational water
use
 | De-construction
demolition | Transport | Waste processing | Disposal
 | Reuse-
Recovery- | Recycling-
potential |
| A1 | A2 | A3

 | A4 | A5 | B1 | B2 I
 | 33 B4 | 4 B5 | B6 | B7
 | C1 | C2 | C3 | C4
 | | D |
| Х | Х | Х

 | Х | Х | Х | X M
 | NR MN | IR MNR | MND | MND
 | MND | Х | Х | X
 | | Х |
| RESU | ILTS | OF TH

 | | A - ENV | /IRONN | IENTAI
 | | CT: 1 m | ² textile | floor
 | coveri | ng | |
 | | |
| Param | | nit

 | A1-A3 | A4 | A5 | B1
 | B2 | C2 | C3/2 | C3/3
 | C4/1 | | b | D/1
 | D/2 | D/3 |
| eter
GWP | [kg C0 | ΩFαl

 | 1.08E+1 | 1 1.87E- | 1 4.86E- | 1 0.00E+
 | 0 3.21E- | 1 1.04E-2 | 4.62E+0 |) 2.57E-2
 | 2 3.13E | -1 -5.5 | 5E-2 (| 0.00E+0
 | -1.85E+0 | -4.61E-1 |
| ODP | | 2 <u>=4.</u>
211-Eq.]

 | | | 15 1.01E-1 |
 | 0 1.37E-{ | 3 2.86E-16 | 6 1.16E-12 | 2 1.14E-1
 | | | |
 | -3.98E-12 | - |
| AP
EP | | D ₂ -Eq.]

 | 1.72E-2 | | |
 | | | |
 | | | | 0.00E+0
0.00E+0
 | -2.87E-3 | -1.74E-3 |
| POCP | |) <u>₄)³-Eq.]</u>
ene-Eq.]

 | 2.13E-3
2.67E-3 | | | _
 | | | |
 | | | | 0.00E+0
 | -3.24E-4 | -1.83E-4
-2.36E-4 |
| ADPE | | b-Eq.]

 | 2.32E-6 | _ | | 8 0.00E+
 | 0 1.09E-6 | 3 7.81E-10 | 0 3.33E-8 | 1.31E-8
 | 3 3.41E | -8 -1.49 | 9E-8 (| 0.00E+0
 | -4.97E-7 | -5.65E-8 |
| ADPF | | 1J]

 | | | 0 6.55E+ |
 | - | | 1 |
 | | | | 0.00E+0
 | | -6.85E+1 |
| <u> </u> | n Eutr | ophicatio

 | | al; POCP | = Format
fossi | GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP =
Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-
fossil resources; ADPF = Abiotic depletion potential for fossil resources
 | | | |
 | | | |
 | | |
| | |

 | | | | E USE:
 | 1 m² te | xtile flo | or cove | erina
 | | | |
 | | |
| | | Jnit

 | | | |
 | 1 m² te
B2 | xtile flo | |
 | C4/1 | D | , | D/1
 | D/2 | D/3 |
| Parame | eter I |

 | A1-A3 | A4 | A5 | B1
 | B2 | C2 | C3/2 | C3/3
 | C4/1 | D | | D/1
 | D/2 | D/3 |
| | eter l | MJ] 1

 | A1-A3
.84E+1 | | |
 | B2
1.56E+0
0.00E+0 | | |
 | 3.50E- | 1 -1.85 | E-1 0 | D/1
0.00E+0
0.00E+0
 | D/2
-6.17E+0
0.00E+0 | D/3
-4.86E-1
0.00E+0 |
| Parame
PERI
PERI
PER | eter I
E [
M [
T [| MJ] 1
MJ] 0
MJ] 1

 | A1-A3
.84E+1
.00E+0
.84E+1 | A4
1.42E-1
0.00E+0
1.42E-1 | A5
5.52E-1
0.00E+0
5.52E-1 | B1
0.00E+0
0.00E+0
0.00E+0
 | B2
1.56E+0
0.00E+0
1.56E+0 | C2
7.87E-3
0.00E+0
7.87E-3 | C3/2
3.87E-1
0.00E+0
3.87E-1 | C3/3
1.76E-1
0.00E+0
1.76E-1
 | 3.50E-
0.00E+
3.50E- | 1 -1.85
0 0.00E
1 -1.85 | E-1 0
E+0 0 | 0.00E+0
0.00E+0
0.00E+0
 | -6.17E+0
0.00E+0
-6.17E+0 | -4.86E-1
0.00E+0
-4.86E-1 |
| Parame
PERI
PERI
PER | eter
E [
M [
T [
RE [| MJ] 1
MJ] 0
MJ] 1
MJ] 1

 | A1-A3
.84E+1
.00E+0
.84E+1
.62E+2 | A4
1.42E-1
0.00E+0
1.42E-1
2.57E+0 | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0 | B1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
 | B2
1.56E+0
0.00E+0
1.56E+0
7.57E+0 | C2
7.87E-3
0.00E+0
7.87E-3
1.43E-1 | C3/2
3.87E-1
0.00E+0
3.87E-1
6.95E+1 | C3/3
1.76E-1
0.00E+0
1.76E-1
6.70E+1
 | 3.50E-
0.00E+
3.50E-
4.71E+ | 1 -1.85
0 0.008
1 -1.85
0 -9.70 | E-1 0
E+0 0
E-1 0
E-1 0 | 0.00E+0
0.00E+0
0.00E+0
0.00E+0
 | -6.17E+0
0.00E+0
-6.17E+0
-3.23E+1 | -4.86E-1
0.00E+0
-4.86E-1
-6.89E+1 |
| Parame
PERI
PERI
PERF
PENF | eter
E [
M [
T [
RE [
M [| MJ] 1
MJ] 0
MJ] 1
MJ] 1
MJ] 6

 | A1-A3
.84E+1
0.00E+0
.84E+1
.62E+2
0.65E+1 | A4
1.42E-1
0.00E+0
1.42E-1
2.57E+0
0.00E+0 | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0
0.00E+0 | B1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
 | B2
1.56E+0
0.00E+0
1.56E+0
7.57E+0
0.00E+0 | C2
7.87E-3
0.00E+0
7.87E-3
1.43E-1
0.00E+0 | C3/2
3.87E-1
0.00E+0
3.87E-1
6.95E+1
-6.65E+1 | C3/3
1.76E-1
0.00E+0
1.76E-1
6.70E+1
-6.65E+1
 | 3.50E-
0.00E+
3.50E-
4.71E+
0.00E+ | 1 -1.85
0 0.008
1 -1.85
0 -9.70
0 0.008 | E-1 0
E+0 0
E-1 0
E-1 0
E-1 0 | 0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
 | -6.17E+0
0.00E+0
-6.17E+0
-3.23E+1
0.00E+0 | -4.86E-1
0.00E+0
-4.86E-1
-6.89E+1
0.00E+0 |
| Parame
PERI
PERI
PER | eter I E [M [T [RE [RM [RT [| MJ] 1
MJ] C
MJ] 1
MJ] 1
MJ] 6
MJ] 2

 | A1-A3
.84E+1
0.00E+0
.84E+1
.62E+2
0.65E+1
2.29E+2 | A4
1.42E-1
0.00E+0
1.42E-1
2.57E+0 | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0 | B1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
 | B2
1.56E+0
0.00E+0
1.56E+0
7.57E+0
0.00E+0 | C2
7.87E-3
0.00E+0
7.87E-3
1.43E-1 | C3/2
3.87E-1
0.00E+0
3.87E-1
6.95E+1 | C3/3
1.76E-1
0.00E+0
1.76E-1
6.70E+1
 | 3.50E-
0.00E+
3.50E-
4.71E+
0.00E+
4.71E+ | 1 -1.85
0 0.006
1 -1.85
0 -9.70
0 0.006
0 -9.70 | E-1 0
E+0 0
E-1 0
E-1 0
E-1 0
E+0 0
E-1 0 | 0.00E+0
0.00E+0
0.00E+0
0.00E+0
 | -6.17E+0
0.00E+0
-6.17E+0
-3.23E+1 | -4.86E-1
0.00E+0
-4.86E-1
-6.89E+1 |
| Paramo
PERI
PERI
PENF
PENF
PENF
SM
RSF | eter I E [M [T [RE [IM [RT [RT [| MJ] 1
MJ] 0
MJ] 1
MJ] 1
MJ] 6
MJ] 2
kg] 1
MJ] 0

 | A1-A3
.84E+1
.00E+0
.84E+1
.62E+2
.65E+1
.29E+2
.87E+0
.00E+0 | A4
1.42E-1
0.00E+0
1.42E-1
2.57E+0
0.00E+0
2.57E+0
0.00E+0
0.00E+0 | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0
0.00E+0
6.85E+0
5.45E-2
0.00E+0 | B1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
 | B2
1.56E+0
0.00E+0
1.56E+0
7.57E+0
0.00E+0
7.57E+0
0.00E+0
0.00E+0 | C2
7.87E-3
0.00E+0
7.87E-3
1.43E-1
0.00E+0
1.43E-1
0.00E+0
0.00E+0 | C3/2
3.87E-1
0.00E+0
3.87E-1
6.95E+1
-6.65E+1
3.02E+0
0.00E+0
0.00E+0 | C3/3
1.76E-1
0.00E+0
1.76E-1
6.70E+1
-6.65E+1
4.69E-1
0.00E+0
0.00E+0
 | 3.50E-
0.00E+
3.50E-
4.71E+
0.00E+
4.71E+
0.00E+
0.00E+ | 1 -1.85
0 0.006
1 -1.85
0 -9.70
0 0.006
0 -9.70
0 0.006
0 0.006 | E-1 0
E+0 0
E-1 0
E-1 0
E+0 0
E-1 0
E-1 0
E+0 0
E+0 0 | 0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
 | -6.17E+0
0.00E+0
-6.17E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
0.00E+0 | -4.86E-1
0.00E+0
-4.86E-1
-6.89E+1
0.00E+0
-6.89E+1
2.59E+0
0.00E+0 |
| Paramo
PER
PER
PEN
PEN
PEN
SM
RSF
NRS | eter I E [M [T [RE [M [RT [F [| MJ] 1
MJ] 0
MJ] 1
MJ] 1
MJ] 6
MJ] 2
kg] 1
MJ] 0
MJ] 0

 | A1-A3
.84E+1
.000E+0
.84E+1
.62E+2
.65E+1
.29E+2
.87E+0
.00E+0
.00E+0 | A4
1.42E-1
0.00E+0
1.42E-1
2.57E+0
0.00E+0
2.57E+0
0.00E+0
0.00E+0
0.00E+0 | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0
0.00E+0
6.85E+0
5.45E-2
0.00E+0
0.00E+0 | B1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
 | B2
1.56E+0
0.00E+0
1.56E+0
7.57E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0 | C2
7.87E-3
0.00E+0
7.87E-3
1.43E-1
0.00E+0
1.43E-1
0.00E+0
0.00E+0
0.00E+0 | C3/2
3.87E-1
0.00E+0
3.87E-1
6.95E+1
-6.65E+1
3.02E+0
0.00E+0
0.00E+0
0.00E+0 | C3/3
1.76E-1
0.00E+0
1.76E-1
6.70E+1
-6.65E+1
4.69E-1
0.00E+0
0.00E+0
0.00E+0
 | 3.50E-
0.00E+
3.50E-
4.71E+
0.00E+
4.71E+
0.00E+
0.00E+
0.00E+ | 1 -1.85 0 0.006 1 -1.85 0 -9.70 0 0.006 0 -9.70 0 0.006 0 -9.70 0 0.006 0 0.006 0 0.006 0 0.006 | E-1 0
E+0 0
E-1 0
E-1 0
E-1 0
E+0 0
E-1 0
E+0 0
E+0 0
E+0 0 | 0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
 | -6.17E+0
0.00E+0
-6.17E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
0.00E+0
-2.43E-29 | -4.86E-1
0.00E+0
-4.86E-1
-6.89E+1
0.00E+0
-6.89E+1
2.59E+0
0.00E+0
6.65E+1 |
| Parama
PERI
PERI
PENI
PENIR
PENIR
SIM
RSF
NRS
FW | eter I
E [
M]
T]
RE [
RE]
RT]
F]
F]
renew
n
rene
of se | MJ] 1 MJ] 1 MJ] 1 MJ] 1 MJ] 6 MJ] 2 kg] 1 MJ] 0 MJ] 2 kg] 1 MJ] 0 m³] 3 mail 0 mail

 | A1-A3
.84E+1
.00E+0
.84E+1
.62E+2
.62E+2
.87E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0 | A4
1.42E-1
0.00E+0
1.42E-1
2.57E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+1
0.00E+1
0.00E+1
0.00E+1
0.00E+1
0.00E+1
1.42E-1
1.42E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0 | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0
6.85E+0
5.45E-2
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
5.52E-1
5.52E-1
5.52E-1
0.00E+0
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.5 |
B1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.0 | B2
1.56E+0
0.00E+0
1.56E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
v materials
renewably
v materials
secondary | C2
7.87E-3
0.00E+0
7.87E-3
1.43E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.45E-5
newable p
s; PERT =
e primary
s; PERT =
tuels; NR
fuels; NR | C3/2
3.87E-1
0.00E+0
3.87E-1
6.95E+1
-6.65E+1
3.02E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.77E-2
rimary en
Total use
energy re
= Total use
sF = Use
er | C3/3
1.76E-1
0.00E+0
1.76E-1
6.70E+1
6.65E+1
4.69E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
2.40E4
ergy resc
of renew
sources is
se of non-res
 | 3.50E-
0.00E+
3.50E-
4.71E+
0.00E+
4.71E+
0.00E+
0.00E+
-1.21E-
urces us
rable prin
used as
r-renewable | 1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.000 0 -9.70 0 0.000 0 -9.70 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 5 -2.52 ed as rance as rance nary end as rance | E-1 0
E-1 0
E-1 0
E-1 0
E-1 0
E-1 0
E-1 0
E+0 0
E+0
E+0 0
E+0 0
E+ | 0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+ | -6.17E+0
0.00E+0
6.17E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-2.43E-29
-8.41E-3
DERM = L
s; PENRE
A = Use of
sources; S
 | 4.86E-1
0.00E+0
4.86E-1
-6.89E+1
0.00E+0
-6.89E+1
2.59E+0
0.00E+0
6.65E+1
-6.18E-3
Jse of
= Use of
f non-
M = Use |
| Parama
PER
PER
PEN
PEN
PEN
SM
RSF
NRS
FW
Captio | eter I E [M [T [RE [M [RE [M [RT [F [I [renew [n renew of see [JLTS [| MJ] 1 MJ] 1 MJ] 1 MJ] 1 MJ] 1 MJ] 1 MJ] 2 Kg] 1 MJ] 0 MJ] 2 Kg] 1 MJ] 0 m³] 3 Con-rene wable pron-rene wable procondary 0 OF TH

 | A1-A3
84E+1
100E+0
84E+1
62E+2
865E+1
229E+2
87E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100E+0
100 | A4
1.42E-1
0.00E+0
1.42E-1
2.57E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.42E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0 | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0
6.85E+0
5.45E-2
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
5.52E-1
5.52E-1
5.52E-1
0.00E+0
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.5 |
B1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.0 | B2
1.56E+0
0.00E+0
1.56E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
v materials
renewably
v materials
secondary | C2
7.87E-3
0.00E+0
7.87E-3
1.43E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.45E-5
newable p
;; PERT =
e primary
;; PENRT
fuels; NR | C3/2
3.87E-1
0.00E+0
3.87E-1
6.95E+1
-6.65E+1
3.02E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.77E-2
rimary en
Total use
energy re
= Total use
sF = Use
er | C3/3
1.76E-1
0.00E+0
1.76E-1
6.70E+1
6.65E+1
4.69E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
2.40E4
ergy resc
of renew
sources is
se of non-res
 | 3.50E-
0.00E+
3.50E-
4.71E+
0.00E+
4.71E+
0.00E+
0.00E+
-1.21E-
urces us
rable prin
used as
r-renewable | 1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.000 0 -9.70 0 0.000 0 -9.70 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 5 -2.52 ed as rance as rance nary end as rance | E-1 0
E-1 0
E-1 0
E-1 0
E-1 0
E-1 0
E-1 0
E+0 0
E+0
E+0 0
E+0 0
E+ | 0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+ | -6.17E+0
0.00E+0
6.17E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-2.43E-29
-8.41E-3
DERM = L
s; PENRE
A = Use of
sources; S
 | 4.86E-1
0.00E+0
4.86E-1
-6.89E+1
0.00E+0
-6.89E+1
2.59E+0
0.00E+0
6.65E+1
-6.18E-3
Jse of
= Use of
f non-
M = Use |
| Parama
PERI
PERI
PENI
PENI
PENI
SM
RSF
NRS
FW
Captio | eter I
E [
M [
T]
RT]
RT]
RT]
F | MJ] 1 MJ] 1 MJ] 1 MJ] 1 MJ] 1 MJ] 1 MJ] 2 MJ] 2 MJ] 2 MJ] 0 wable proon-renee wable proon-renee wable proon-renee 0 0 0 0 0 0 0 0 0

 | A1-A3
.84E+1
.00E+0
.84E+1
.62E+2
.62E+2
.87E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0 | A4
1.42E-1
0.00E+0
1.42E-1
2.57E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.42E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0 | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0
6.85E+0
5.45E-2
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
5.52E-1
5.52E-1
5.52E-1
0.00E+0
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.52E-1
5.5 |
B1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.0 | B2
1.56E+0
0.00E+0
1.56E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
v materials
renewably
v materials
secondary | C2
7.87E-3
0.00E+0
7.87E-3
1.43E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.45E-5
newable p
s; PERT =
e primary
s; PERT =
tuels; NR
fuels; NR | C3/2
3.87E-1
0.00E+0
3.87E-1
6.95E+1
-6.65E+1
3.02E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.77E-2
rimary en
Total use
energy re
= Total use
sF = Use
er | C3/3
1.76E-1
0.00E+0
1.76E-1
6.70E+1
6.65E+1
4.69E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
2.40E4
ergy resc
of renew
sources is
se of non-res
 | 3.50E-
0.00E+
3.50E-
4.71E+
0.00E+
4.71E+
0.00E+
0.00E+
-1.21E-
urces us
rable prin
used as
r-renewable | 1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.000 0 -9.70 0 0.000 0 -9.70 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 5 -2.52 ed as rance as rance nary end as rance | E-1 0
E-1 0
E-1 0
E-1 0
E-1 0
E-1 0
E-1 0
E-1 0
E+0 0
E+0
E+0 0
E+0 0
E+ | 0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+ | -6.17E+0
0.00E+0
6.17E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-2.43E-29
-8.41E-3
DERM = L
s; PENRE
A = Use of
sources; S
 | 4.86E-1
0.00E+0
4.86E-1
-6.89E+1
0.00E+0
-6.89E+1
2.59E+0
0.00E+0
6.65E+1
-6.18E-3
Jse of
= Use of
f non-
M = Use |
| Paramo
PER
PER
PENF
PENF
SM
RSF
NRS
FW
Caption | eter I E [M [T [RT [RT [F [n renework n renework sextille [eter [| MJ 1
MJ 0
MJ 1
MJ 1
MJ 1
MJ 2
kg 1
MJ 2
kg 1
MJ 0
m ³ 3
ERE = 1
wable pr
on-rene
wable pr
on-rene
wable pr
on-rene
mable pr
on
 |
A1-A3
.84E+1
.00E+0
.84E+1
.62E+2
.62E+2
.62E+2
.87E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0 | A4
1.42E-1
0.00E+0
1.42E-1
2.57E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.42E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0 | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0
0.00E+0
6.85E+0
0.00E+0
0.00E+0
1.51E-3
primary e
ources us
ergy exclu-
ources us
Use of re
TPUT F | B1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
set as raw
uding non
set as raw
 | B2
1.56E+0
0.00E+0
1.56E+0
7.57E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
7.38E-3
cluding rev
materials
renewably
waterials | C2
7.87E-3
0.00E+0
7.87E-3
1.43E-1
0.00E+0
1.43E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.45E-5
perwable p
s; PERT =
e primary
s; PENRT
fuels; NR
wat | C3/2
3.87E-1
0.00E+0
3.87E-1
6.65E+1
3.02E+0
0.00E+0
0.00E+0
0.00E+0
1.07E-2
rimary en-
Total use
energy re
= Total use
SF = Use
er
CATEG | C3/3
1.76E-1
0.00E+0
1.76E-1
6.65E+1
4.69E-1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
2.40E4
ergy reso
of renew
sources to
se of non-ref
ORIES: | 3.50E-
0.00E+
3.50E-
4.71E+
0.00E+
4.71E+
0.00E+
0.00E+
0.00E+
-1.21E-
urces us
rable prir
used as
r-renewable
 | 1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.000 0 -9.70 0 0.000 0 -9.70 0 0.000 0 | E-1 0
E+0 0
E-1 0 | 0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.0 | -6.17E+0
0.00E+0
-6.17E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-2.43E-29
-8.41E-3
PERM = Use of
sources; S
= Use of | -4.86E-1
0.00E+0
-4.86E-1
-6.89E+1
0.00E+0
-6.89E+1
2.59E+0
0.00E+0
6.65E+1
-6.18E-3
Jse of
= Use of
f non-
M = Use
net fresh
 |
Paramo PER PER PENF PENF SM RSF NRS FW Caption	eter I E [M [T [RT [RT [F [n renework n renework icextile [eter [MJ] 1 MJ] 0 MJ] 1 MJ] 1 MJ] 2 kg] 1 MJ] 2 kg] 1 MJ] 0 mJ] 0 mJ] 0 mJ] 0 mJ] 0 mJ] 0 mJ] 0 mJ] 0 mJ] 1 mJ] 1 mJ	A1-A3 .84E+1 .00E+0 .84E+1 .65E+1 .29E+2 .65E+1 .29E+2 .87E+0 .00E+0 .00E+0 .00E+0 .000E+0	A4 1.42E-1 0.00E+0 1.42E-1 2.57E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.57E+1 0.00E+0 0.00E+0 1.42E-1 2.57E+0 0.00E+0 1.42E-1 2.57E+0 0.00E+0 1.42E-1 2.57E+0 0.00E+0 1.42E-1 2.57E+0 0.00E+0 1.42E-1 2.57E+0 0.00E+0 1.42E-1 2.57E+0 0.00E+0 1.42E-1 2.57E+0 0.00E+0 1.42E-1 2.57E+0 0.00E+0 1.42E-1 2.57E+0 0.00E+0 1.42E-1 2.57E+0 0.00E+0 1.42E-1 2.67E+0 0.00E+0 1.42E-1 2.67E+0 0.00E+0 1.42E-1 2.67E+0 0.00E+0 1.42E-1 2.67E+0 0.00E+0 1.42E-1 2.67E+0 0.00E+0 1.42E-1 2.67E+0 0.00E+0 1.42E-1 2.67E+0 0.00E+0 1.42E-1 2.67E+0 0.00E+0 0.00E+0 1.42E-1 2.67E+0 0.00E+0 0.00E+0 1.42E-1 2.67E+0 0.00E+0	A5 5.52E-1 0.00E+0 5.52E-1 6.85E+0 6.85E+0 5.45E-2 0.00E+0 1.51E-3 primary e ources us use of re TPUT F A5	B1 0.00E+0 0.00	B2 1.56E+0 0.00E+0 1.56E+0 7.57E+0 0.00E+0 7.57E+0 0.00E+0 7.38E-3 cluding reist renewably wraterials renewably AND W B2 1.26E-9	C2 7.87E-3 0.00E+0 7.87E-3 1.43E-1 0.00E+0 1.43E-1 0.00E+0 0.00E+0 0.00E+0 1.45E-5 newable p s; PERT = e primary s; PERT = e primary s; PERT = display fuels; NR wat ASTE C	C3/2 3.87E-1 0.00E+0 3.87E-1 6.59E+1 6.65E+1 3.02E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.77E-2 rimary env Total use energy re = Total us SF = Use er C3/2	C3/3 1.76E-1 0.00E+0 1.76E-1 6.70E+1 6.65E+1 4.69E-1 0.00E+0 0.00E+0 0.00E+0 2.40E4 ergy resc of renew sources to se of non of non-re ORIES: C3/3 2.20E-10	3.50E- 0.00E+ 3.50E- 4.71E+ 0.00E+ 0.00E+ 0.00E+ 0.00E+ 0.00E+ -1.21E- urces us rable prir used as r-renewal enewable	1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.001 0 -9.70 0 0.001 0 -9.70 0 0.001 0 0.001 0 0.005 -2.52 ed as ranary endational second aw matbole prime second 0 second 0 -3.951	E-1 0 E-1 0 E-10 E-1 0 E-1 0 E	0.00E+0 0.0	-6.17E+0 0.00E+0 -6.17E+0 -3.23E+1 0.00E+0 -3.23E+1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.43E-29 -8.41E-3 PERM = L s; PENRE A = Use of sources; S = Use of D/2	-4.86E-1 0.00E+0 -4.86E-1 -6.89E+1 0.00E+0 -6.89E+1 2.59E+0 0.00E+0 6.65E+1 -6.18E-3 Jse of = Use of f non- SM = Use net fresh
Paramo PER PER PEN PEN SM RSF NRS FW Captio Captio	eter I E [M [T [RE [M [RE [M [RT [F [F [P [n renew n renew of se [ULTS [eter [D [MJ 1 Nalle proor 1 More the proor 1 More the proor 1 MI 1 MJ 1 MJ <t< td=""><td>A1-A3 84E+1 100E+0 84E+1 62E+2 665E+1 129E+2 87E+0 100</td><td>A4 1.42E-1 0.00E+0 1.42E-1 2.57E+0 0.00E+0 2.57E+0 0.00E+0</td><td>A5 5.52E-1 0.00E+0 5.52E-1 6.85E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 5.45E-2 0.00E+0 0.00E+0 5.45E-2 0.00E+0 0.00E+0 5.45E-2 5.45E-2</td><td>B1 0.00E+0 sed as raw ding non sed as raw ding non sed as raw B1 0.00E+0 0.00E+0 0.00E+0</td><td>B2 1.56E+0 0.00E+0 1.56E+0 7.57E+0 0.00E+0 7.57E+0 0.00E+0 vmaterials secondary B2 1.26E-9 8.24E-3 3.95E-4</td><td>C2 7.87E-3 0.00E+0 7.87E-3 1.43E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.43E-5 newable p s; PERT = e primary s; PEN = e primary s; PEN = e primary s; PEN = c2 8.25E-9 1.20E-5 1.95E-7</td><td>C3/2 3.87E-1 0.00E+0 3.87E-1 6.95E+1 3.02E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.77E-2 rimary em Total use energy re = Total use SF = Use er C3/2 1.85E-8 1.20E+0 1.33E-4</td><td>C3/3 1.76E-1 0.00E+0 1.76E-1 6.70E+1 4.69E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.40E+4 ergy resc of renew sources to se of non of non-re ORIES C3/3 2.20E-10 3.30E+4 7.77E-5</td><td>3.50E- 0.00E+ 3.50E- 4.71E+ 0.00E+ 4.71E+ 0.00E+ 0.00E+ 0.00E+ -1.21E- urces us able prin urces us able prin</td><td>1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.000 0 -9.70 0 0.000 0 -9.70 0 0.000 0 0.000 0 0.000 0 0.000 5 -2.52 ed as ranary enable prim asecond 3 -3.956 0 -4.13 5 -8.14</td><td>E-10 0 E-0 0 E-0 0 E-1 0 E-1 0 E-1 0 E-1 0 E-1 0 E-0 0 E-0 0 E-0 0 E-0 0 E-0 0 E-0 0 E-1 0 E-0 0 E-1 0 E</td><td>0.00E+0 0.0</td><td>-6.17E+0 0.00E+0 -6.17E+0 -3.23E+1 0.00E+0 -3.23E+1 0.00E+0 -2.43E-29 -8.41E-3 DERM = L S; PENRE A = Use of D/2 -1.32E-8 -1.32E-8 -1.32E-2 -2.71E-3</td><td>4.86E-1 0.00E+0 4.86E-1 6.89E+1 0.00E+0 6.639E+1 2.59E+0 0.00E+0 6.65E+1 6.18E-3 Jse of r on M = Use of f non M = Use net fresh D/3 -1.93E-9 -9.24E-2 -1.56E-4</td></t<>	A1-A3 84E+1 100E+0 84E+1 62E+2 665E+1 129E+2 87E+0 100	A4 1.42E-1 0.00E+0 1.42E-1 2.57E+0 0.00E+0 2.57E+0 0.00E+0	A5 5.52E-1 0.00E+0 5.52E-1 6.85E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 5.45E-2 0.00E+0 0.00E+0 5.45E-2 0.00E+0 0.00E+0 5.45E-2 5.45E-2	B1 0.00E+0 sed as raw ding non sed as raw ding non sed as raw B1 0.00E+0 0.00E+0 0.00E+0	B2 1.56E+0 0.00E+0 1.56E+0 7.57E+0 0.00E+0 7.57E+0 0.00E+0 vmaterials secondary B2 1.26E-9 8.24E-3 3.95E-4	C2 7.87E-3 0.00E+0 7.87E-3 1.43E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.43E-5 newable p s; PERT = e primary s; PEN = e primary s; PEN = e primary s; PEN = c2 8.25E-9 1.20E-5 1.95E-7	C3/2 3.87E-1 0.00E+0 3.87E-1 6.95E+1 3.02E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.77E-2 rimary em Total use energy re = Total use SF = Use er C3/2 1.85E-8 1.20E+0 1.33E-4	C3/3 1.76E-1 0.00E+0 1.76E-1 6.70E+1 4.69E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.40E+4 ergy resc of renew sources to se of non of non-re ORIES C3/3 2.20E-10 3.30E+4 7.77E-5	3.50E- 0.00E+ 3.50E- 4.71E+ 0.00E+ 4.71E+ 0.00E+ 0.00E+ 0.00E+ -1.21E- urces us able prin urces us able prin	1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.000 0 -9.70 0 0.000 0 -9.70 0 0.000 0 0.000 0 0.000 0 0.000 5 -2.52 ed as ranary enable prim asecond 3 -3.956 0 -4.13 5 -8.14	E-10 0 E-0 0 E-0 0 E-1 0 E-1 0 E-1 0 E-1 0 E-1 0 E-0 0 E-0 0 E-0 0 E-0 0 E-0 0 E-0 0 E-1 0 E-0 0 E-1 0 E	0.00E+0 0.0	-6.17E+0 0.00E+0 -6.17E+0 -3.23E+1 0.00E+0 -3.23E+1 0.00E+0 -2.43E-29 -8.41E-3 DERM = L S; PENRE A = Use of D/2 -1.32E-8 -1.32E-8 -1.32E-2 -2.71E-3	4.86E-1 0.00E+0 4.86E-1 6.89E+1 0.00E+0 6.639E+1 2.59E+0 0.00E+0 6.65E+1 6.18E-3 Jse of r on M = Use of f non M = Use net fresh D/3 -1.93E-9 -9.24E-2 -1.56E-4
Paramo PERI PERI PENF PENF SM SM SM SM SM SM SM Caption Caption Caption RESU 1 m ² 1 Paramo HWU NHW RWU CRU	etter I E [M [T [RE [M [RE [M [F [F [renew n	MJ 1 MJ 0 wable proon-rene wable proon-rene floor Jnit kg 2 kg 2 kg 2 kg 2 kg 3	A1-A3 .84E+1 .00E+0 .84E+1 .00E+0 .62E+2 .65E+1 .29E+2 .87E+0 .000E+0 .000E+0 .000E+0 .000E+0 .000E+0 .000E+0 .000E+0 .000E+0 .000E+0 .257E-1 .57E-1 .399E-3 .000E+0	A4 1.42E-1 0.00E+0 1.42E-1 1.42E-1 1.42E-1 2.57E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 A A 1.48E-7 2.15E-4 0.51E-6 0.00E+0	A5 5.52E-1 0.00E+0 5.52E-1 6.85E+0 6.85E+0 5.45E-2 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 TPUT F A5 1.20E-8 4.34E-2 1.21E-4 0.00E+0	B1 0.00E+0	B2 1.56E+0 0.00E+0 1.56E+0 0.00E+0 7.57E+0 0.00E+0	C2 7.87E-3 0.00E+0 7.87E-3 1.43E-1 0.00E+0 1.43E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.45E-5 rewable p 5; PERT = e primary s; PERT = e primary s; PERT = fuels; NR wat ASTE (8.25E-9 1.20E-5 1.95E-7 0.00E+0	C3/2 3.87E-1 0.00E+0 3.87E-1 6.95E+1 6.95E+1 3.02E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.77E-2 rimary en Total use energy re = Total use = Total use	C3/3 1.76E-1 0.00E+0 1.76E-1 1.76E-1 1.76E-1 1.62E+1 4.69E-1 0.00E+0 0.00E+	3.50E- 3.50E- 3.50E- 4.71E+ 0.00E+ 4.71E+ 0.00E+ 4.71E+ 0.00E+ 1.21E- UTCES US able prirused as renewable 2.01E- 4.44E+ 6.69E- 0.00E+	1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.000 0 -9.70 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 5 -2.52 ed as ranary entraw mat oble prime second 3 -3.956 0 0.4.13 5 -8.14 0 0.000	E-1 0 E-0 0 E-0 0 E-1 0 E-1 0 E-1 0 E-1 0 E-1 0 E-1 0 E-1 0 E-0 0 E-1 0 E-0 0 E-	0.00E+0 0.0	-6.17E+0 0.00E+0 -6.17E+0 -3.23E+1 0.00E+0 -3.23E+1 0.00E+0 -2.43E-29 -2.43E-29 -2.43E-29 -2.43E-29 -2.43E-29 -2.43E-20 -1.32E-8 -1.32E-8 -1.32E-8 -1.32E-2 -2.71E-3 0.00E+0	4.86E-1 0.00E+0 4.86E-1 -6.89E+1 0.00E+0 -6.89E+1 2.59E+0 0.00E+0 6.65E+1 -6.18E-3 Jse of = Use of f non- M = Use of f non- f
Paramo PERI PERI PENF PENF PENF SM SM SM SM SM Captio	eter I E [M [T [RT [RT [RT [Prenew n rene of se JLTS [D [J [MJ 1 MJ 0 MJ 1 MJ 0 Wable pron-rene 0 Mg 2 kg 2 kg 2 kg 2 kg 2 kg 3 kg 3	A1-A3 .84E+1 .00E+0 .84E+1 .62E+2 .65E+1 .29E+2 .87E+0 .00E+0	A4 1.42E-1 0.00E+0 1.42E-1 2.57E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.48E-7 2.15E-4 3.51E-6 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0	A5 5.52E-1 0.00E+0 5.52E-1 6.85E+0 6.85E+0 5.45E-2 0.00E+0 1.51E-3 primary e ources us ergy excl ources us ergy excl ources us true ources us	B1 0.00E+0	B2 1.56E+0 0.00E+0 1.56E+0 0.00E+0 1.56E+0 0.00E+0 7.57E+0 0.00E+0 82 1.26E-9 8.24E-3 3.95E-4 0.00E+0 0.00E+0	C2 7.87E-3 0.00E+0 7.87E-3 7.87E-3 7.87E-3 7.87E-3 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.45E-5 newable p s; PERT = e primary s; PERT =	C3/2 3.87E-1 0.00E+0 0.55E+1 -6.65E+1 3.02E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.77E-2 rimary en- Total use energy re = Total us SF = Use er C3/2 1.85E-8 1.20E+0 0.00E+0 0.00E+0	C3/3 1.76E-1 0.00E+0 1.76E-1 6.70E+1 6.65E+1 4.69E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.40E4 ergy resc of renew sources t se of non of non-re ORIES C3/3 2.20E-10 3.30E4 7.77E-5 0.00E+0 2.59E+0	3.50E- 0.00E+ 3.50E- 4.71E+ 0.00E+ 4.71E+ 0.00E+ 0.00E+ 0.00E+ -1.21E- UICES US able prin used as renewable C4/1 2.01E- 4.44E+ 6.69E- 0.00E+ 0.00E+	1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.000 0 -9.70 0 0.000 0 -9.70 0 0.000 0 -9.70 0 0.000 0 0.000 0 0.000 0 0.000 5 -2.52 ed as rangy endational prime second 0 -2.52 ed as rangy endational prime second 0 -4.13 5 -8.14 0 0.000 0 0.000	E-10 E-10 E-100 E-100 E-100 E-100 E-100 E-100 E-100 E-100 E-100 E-100 E-1000 E-	0.00E+0 0.0	-6.17E+0 0.00E+0 -3.23E+1 0.00E+0 -3.23E+1 0.00E+0 -3.23E+1 0.00E+0 0.00E+0 -2.43E-29 -8.41E-3 DERM = L SOURCES; S = Use of DI2 -1.32E-8 -1.38E-2 -2.71E-3 0.00E+0 0.00E+0	4.86E-1 0.00E+0 4.86E-1 -6.89E+1 0.00E+0 -6.89E+1 2.59E+0 0.00E+0 6.65E+1 -6.18E-3 Jse of = Use of f non- M = Use of f non- M = Use net fresh D/3 -1.93E-9 -9.24E-2 -1.56E+4 0.00E+0 0.00E+0
Paramo PER PER PENF PENF PENF SM RSF NRS FW Caption RESU 1 m ² 1 Paramo HWD NHW RWD CRU MFF MEF	eter I E [M [T [RT [RT [RT [P [renew n renew n renew n cextile [eter [D [J [R [MJ 1 Wable pron-rene wable pron-rene wable pron-rene floor Jnit 1 kg 2														

 | A1-A3
.84E+1
.00E+0
.84E+1
.65E+1
.65E+1
.29E+2
.87E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0
.00E+0 | A4
1.42E-1
0.00E+0
1.42E-1
2.57E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.42E-7
2.15E-4
3.51E-6
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0 | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0
6.85E+0
5.45E-2
0.00E+0
1.51E-3
primary e
ources us
ergy exclusion
ources us
Use of re
TPUT F
A5
1.20E-8
4.34E-2
1.21E-4
0.00E+0
1.22E-1
0.00E+0
1.22E-1
0.00E+0 | B1 0.00E+0
 | B2 1.56E+0 0.00E+0 1.56E+0 7.57E+0 0.00E+0 7.57E+0 0.00E+0 7.57E+0 0.00E+0 7.37E+3 0.00E+0 0.00E+0 7.38E-3 cluding rend materials -renewably waterials -renewably Materials -renewably B2 1.26E-9 8.24E-3 3.95E-4 0.00E+0 0.00E+0 0.00E+0 0.00E+0 | C2 7.87E-3 0.00E+0 7.87E-3 1.43E-1 0.00E+0 1.43E-1 0.00E+0 1.43E-1 0.00E+0 0.00E+0 0.00E+0 1.45E-5 newable p s; PERT = e primary s; PERT = e primary s; PERT = C2 8.25E-9 1.20E-5 1.95E-7 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 | C3/2 3.87E-1 0.00E+0 3.87E-1 6.59E+1 6.65E+1 3.02E+0 0.00E+0 0.00E+0 0.00E+0 1.77E-2 rimary env Total use energy re = Total us SF = Use er C3/2 1.85E-8 1.20E+0 1.33E-4 0.00E+0 0.00E+0 0.00E+0 | C3/3 1.76E-1 0.00E+0 1.76E-1 6.70E+1 6.65E+1 4.69E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.40E4 ergy resc of renew sources t se of non of non-re ORIES C3/3 2.20E-10 3.30E4 7.77E-5 0.00E+0 1.86E+0 1.86E+0 | 3.50E-
0.00E+
3.50E-
4.71E+
0.00E+
4.71E+
0.00E+
0.00E+
-1.21E-
urces us
able prir
used as
-renewable
c4/1
2.01E-
4.44E+
6.69E-
0.00E+
0.00E+
0.00E+
 | 1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.000 0 -9.70 0 0.000 0 -9.70 0 0.000 0 0.000 0 0.000 0 0.000 0 0.0000 0 0.0000 5 -2.52 ed as ranary endation aw matbole prime asecond | E-1 0
E-1 0 | D/00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.0 | -6.17E+0
0.00E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-2.43E-29
-8.41E-3
PERM = L
S; PENRE
A = Use of
D/2
-1.32E-8
-1.38E-2
-2.71E-3
0.00E+0
0.00E+0
0.00E+0 | 4.86E-1
0.00E+0
4.86E-1
-6.89E+1
2.59E+0
0.00E+0
6.65E+1
6.65E+1
6.65E+1
6.65E+1
6.65E+1
6.65E+1
9.00E+0
M = Use
net fresh
0.00E+0
-1.93E-9
-9.24E-2
-1.56E-4
0.00E+0
0.00E+0
0.00E+0
 |
| Paramo
PERI
PERI
PENF
PENF
PENF
SM
SM
SM
SM
SM
Captio | eter I E [M [T [RT [RT [F [Prenew n renew n renew n renew n cextile 0 D 0 J [R [R [| MJ] 1 MJ] 2 kg] 1 MJ] 0 MJ] 0 MJ] 0 MJ] 0 MJ] 0 MJ] 0 m³ 3 ERE = 1 1 wable pron-rene wable pron-rene wable pron-rene floor Jnit 1 kg] 2 kg] 0 Kg] 0 MJ] 0 | A1-A3 84E+1 100E+0 84E+1 662E+2 665E+1 229E+2 87E+0 100E+0 | A4 1.42E-1 0.00E+0 1.42E-1 2.57E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.61E-4 and the sergy ress imary en nergy ress imary en ner | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0
6.85E+0
5.45E-2
0.00E+0
1.51E-3
primary e
ources us
ergy exclusion
ources us
Use of re
TPUT F
A5
1.20E-8
4.34E-2
1.21E-4
0.00E+0
1.22E-1
0.00E+0
1.22E-1
0.00E+0 | B1 0.00E+0 | B2 1.56E+0 0.00E+0 1.56E+0 7.57E+0 0.00E+0 7.57E+0 0.00E+0 7.3F2-3 0.00E+0 7.3E3 cluding reine renewably waterials renewably MAD W B2 1.26E-9 8.24E-3 3.95E-4 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 | C2 7.87E-3 0.00E+0 7.87E-3 1.43E-1 0.00E+0 1.43E-1 0.00E+0 1.43E-1 0.00E+0 0.00E+0 0.00E+0 1.45E-5 newable p s; PERT = e primary s; PENRT fuels; NR wat ASTE C 2 8.25E-9 1.20E-5 1.95E-7 0.00E+0 0.00E | C3/2
3.87E-1
0.00E+0
3.87E-1
6.59E+1
6.65E+1
3.02E+0
0.00E+0
0.00E+0
0.00E+0
1.77E-2
rimary en-
Total use
energy re
= Total us
SF = Use
er
C3/2
1.85E-8
1.20E+0
1.33E-4
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.0 | C3/3 1.76E-1 0.00E+0 1.76E-1 6.70E+1 6.65E+1 4.69E-1 0.00E+0 0.00E+0 0.00E+0 2.40E+4 1.469E+0 0.00E+0 1.86E+0 0.00E+0 | 3.50E-
0.00E+
3.50E-
4.71E+
0.00E+
0.00E+
0.00E+
0.00E+
-1.21E-
urces us
rable prir
used as
r-renewal
enewable
C4/1
2.01E-
4.44E+
6.69E-
0.00E+
0.00E+
0.00E+
0.00E+ | 1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.000 0 -9.70 0 0.000 0 -9.70 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 3 -3.956 0 -4.13 5 -8.14 0 0.000 0 0.000 0 0.000 0 0.000 | E-1 0
E-1 0 | D/00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.0 | -6.17E+0
0.00E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+2
A=128
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.32E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E-8
-1.52E | 4.86E-1
0.00E+0
4.86E-1
-6.89E+1
2.59E+0
0.00E+0
6.65E+1
-6.18E-3
Jse of
= Use of
f non-
M = Use of
f non-
M = Use
net fresh
D/3
-1.93E-9
-9.24E-2
-1.56E-4
0.00E+0
0.00E+0
0.00E+0
0.00E+0 |
| Paramo
PER
PER
PEN
PEN
PEN
SM
SM
SM
SM
SM
SM
SM
SM
SM
SM
SM
SM
SM | eter I E [M [T [RT [RT [RT [F [Prenewn n renework n renework | MJ 1 MJ 2 kg 1 MJ 0 Mable proon-renee 0 floor 10 Jnit 10 kg 2 kg 2 kg 2 kg 2 kg 0 kg 0 MJ 0 | A1-A3 84E+1 100E+0 84E+1 862E+2 865E+1 29E+2 87E+0 100E+0 | A4 1.42E-1 0.00E+0 1.42E-1 2.57E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.61E-4 nergy ress imary en nergy ress imary en nergy ress imary en nergy ress it; RSF = A - OU ing A4 1.48E-7 2.15E-4 3.51E-6 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 | A5
5.52E-1
0.00E+0
5.52E-1
6.85E+0
0.00E+0
6.85E+0
5.45E-2
0.00E+0
0.00E+0
1.51E-3
primary e
ources us
ergy exclusion
ources us
ergy exclusion
ources us
ergy exclusion
ources us
ergy exclusion
ources us
1.51E-3
Primary e
ources us
1.51E-3
Primary e
ources us
1.51E-3
Primary e
ources us
1.51E-3
Primary e
0.00E+0
1.51E-3
Primary e
0.00E+0
1.51E-3
Primary e
0.00E+0
1.22E-1
1.21E-4
0.00E+0
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22E-1
1.22 | B1 0.00E+0 as raw anewable s LOWS B1 0.00E+0 | B2 1.56E+0 0.00E+0 1.56E+0 7.57E+0 0.00E+0 7.57E+0 0.00E+0 7.37E-3 0.00E+0 7.38E-3 cluding rei raterials renewably waterials ceondary B2 1.26E-9 8.24E-3 3.95E-4 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 | C2 7.87E-3 0.00E+0 7.87E-3 1.43E-1 0.00E+0 1.43E-1 0.00E+0 1.43E-1 0.00E+0 0.00E+0 0.00E+0 1.45E-5 newable p s; PERT = e primary s; PENRT fuels; NR wat ASTE C 2 8.25E-9 1.20E-5 1.95E-7 0.00E+0 0.00E | C3/2
3.87E-1
0.00E+0
3.87E-1
6.65E+1
3.02E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.77E-2
rimary en-
Total use
energy re
= Total us
SF = Use
er
C3/2
1.85E-8
1.20E+0
1.33E-4
0.00E+0
0.00E+0
0.00E+0
0.00E+0
1.33E-4
0.00E+0
1.33E-4
0.00E+0
1.33E-4
0.00E+0
1.33E-4
0.00E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.33E-4
1.20E+0
1.23E+0
1.23E+0
1.23E+0
1.23E+0
1.23E+0
1.23E+0
1.23E+0
1.23E+0
1.23E+0
1.23E+0
1.23E+0
1.23E+0
1.23E+0
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.24E+1
1.2 | C3/3 1.76E-1 0.00E+0 1.76E-1 6.70E+1 6.65E+1 4.69E-1 0.00E+0 0.00E+0 0.00E+0 2.40E4 ergy resc of renew sources to se of non of non-re ORIES C3/3 2.20E-10 3.30E4 7.77E-5 0.00E+0 2.59E+0 1.86E+0 0.00E+0 0.00E | 3.50E-
0.00E+
3.50E-
4.71E+
0.00E+
4.71E+
0.00E+
4.71E+
0.00E+
0.00E+
-1.21E-
urces us
rable prir
used as
r-renewable
C4/1
2.01E-
4.44E+
6.69E-
0.00E+
0.00E+
0.00E+
0.00E+ | 1 -1.85 0 0.000 1 -1.85 0 -9.70 0 0.000 0 -9.70 0 0.000 0 -9.70 0 0.000 0 0.000 0 0.000 0 0.000 5 -2.52 ed as raw mat ble prim ble prim second 3 -3.956 0 -4.13 5 -8.14 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 | E-10
E-0
E-0
E-0
E-0
E-10
E-0
E-0
E-0
E-0
E-0
E-0
E-0
E-0
E-0
E- | D/00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.0 | -6.17E+0
0.00E+0
-6.17E+0
-3.23E+1
0.00E+0
-3.23E+1
0.00E+0
-2.43E-29
-8.41E-3
-2.43E-29
-8.41E-3
-2.7ME = L
-1.32E-8
-1.32E-8
-1.38E-2
-2.71E-3
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0
0.00E+0 | 4.86E-1
0.00E+0
4.86E-1
6.89E+1
2.59E+0
0.00E+0
6.65E+1
6.18E-3
Jse of
= Use of
non-
M = Use
net fresh
D/3
-1.93E-9
-9.24E-2
-1.56E-4
0.00E+0
0.00E+0
0.00E+0
0.00E+0 |

Environmental Product Declaration Desso® – Tufted carpet tiles, total pile material 900 g/m² polyamide 6 with 0% recycled content, solution dyed yarn, modified bitumen backing

thermal energy



References

/IBU 2016/

IBU (2016): General Programme Instructions for the Preparation of EPDs at the Institut Bauen und Umwelt e.V., Version 1.1 Institut Bauen und Umwelt e.V., Berlin.

www.ibu-epd.de

/ISO 14025/

DIN EN /ISO 14025:2011-10/, Environmental labels and declarations — Type III environmental declarations — Principles and procedures

/EN 15804/

/EN 15804:2012-04+A1 2013/, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products

EN 16810

DIN EN 16810: 2017-08: Resilient, textile and laminate floor coverings – Environmental product declarations – Product category rules

PCR Part A

Institut Bauen und Umwelt e.V., Berlin (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report, V1.7, March 2018 www.bau-umwelt.de

PCR Part B

Institut Bauen und Umwelt e.V., Berlin (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part B: Requirements on the EPD for floor coverings, V1.2, Febuary 2018 www.bau-umwelt.de

EN 1307

DIN EN 1307: 2014+A1:2016: Textile floor coverings - Classification

EN 14041

DIN EN 14041: 2008-05: Resilient, textile and laminate floor coverings - Essential characteristics

ISO 10874

DIN EN ISO 10874: 2012-04: Resilient, textile and laminate floor coverings - Classification

EN 13501-1

DIN EN 13501-1:2010-01: Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

ISO 15686

ISO 15686: Buildings and constructed assets -Service life planning

ISO 15686-1: 2011-05: Part 1: General principles and framework

ISO 15686-2: 2012-05: Part 2: Service life prediction procedures

ISO 15686-7: 2006-03: Part 7: Performance evaluation for feedback of service life data from practice ISO 15686-8: 2008-06: Part 8: Reference service life and service-life estimation

VDZ e.V.

Umweltdaten der deutschen Zementindustrie 2016

CPR

Construction Producs Regulation, Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

PRODIS

Product Information System (PRODIS) of the European Carpet Industry, Gemeinschaft umweltfreundlicher Teppichboden e.V (GUT) and European Carpet and Rug Association (ECRA), http://www.pro-dis.info

REACH

Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency (ECHA), European Union Regulation No 1907/2006, June 2017,

GaBi database 2018

GaBi Software-System and Database for Life Cycle Engeneering, thinkstep AG, Leinfelden-Echterdingen, service pack 35, 2018

ecoinvent 3.3

ecoinvent, Zurich, Switzerland, Database Version 3.3, August 2016

Institut Bauen und Umwelt e.V.	Publisher Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany	Tel Fax Mail Web	+49 (0)30 3087748- 0 +49 (0)30 3087748- 29 info@ibu-epd.com www.ibu-epd.com
Institut Bauen und Umwelt e.V.	Programme holder Institut Bauen und Umwelt e.V. Panoramastr 1 10178 Berlin Germany	Tel Fax Mail Web	+49 (0)30 - 3087748- 0 +49 (0)30 – 3087748 - 29 info@ibu-epd.com www.ibu-epd.com
CONPETS OF THE TANK	Author of the Life Cycle Assessment Gemeinschaft umweltfreundlicher Teppichboden (GUT) e.V. Schönebergstraße 2 52068 Aachen Germany	Tel Fax Mail Web	+45 (0)241 96843 410 +45 (0)241 96843 400 mail@gut-ev.de www.gut-ev.org
O Tarkett	Owner of the Declaration Tarkett BV Taxandriaweg 15 5142 PA Waalwijk Netherlands	Tel Fax Mail Web	+31 (0)416 684 152 +31 (0)416 335 955 desso@tarkett.com www.desso.com

to the

ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804

Owner of the Declaration	Tarkett BV
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-DES-20180079-CCA1-EN
Issue date	07.06.2018
Valid to	06.06.2023

Tufted carpet tiles

with a maximum total pile weight of 900 g/m² pile material polyamide 6, solution dyed modified bitumen backing

Desso®

www.bau-umwelt.com / https://epd-online.com





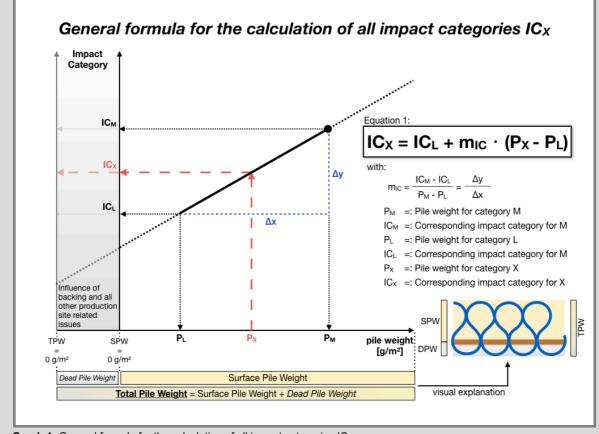
General Information on the annex

The EPD document is valid for all products with a total pile weight lower or equal to the declared maximum pile weight of 900 g/m^2 .

This annex provides calculated LCA results for a fixed set of structurally identical products with lower total pile weights in intervals of 100 g/m^2 .

As, for all impact categories and all modules (A-D), LCA results show a linear correlation with the total pile weight, it is also possible to calculate LCA results for any product with a total pile weight P_x different from those already mentioned in the annex.

LCA results can be calculated by using general 'equation 1', as shown in the graph below.



Graph 1: General formula for the calculation of all impact categories ICx.

The following table gives the definition of pile weight categories used in this annex:

Category	ory L X ₁		X ₂	Xn	М		
max. pile weight per category	lowest pile weight, as declared in the annex	L + 100 g/m²	X ₁ + 100 g/m²	X _{n-1} + 100 g/m²	max. pile weight, as declared in the EPD		

General Information on use stages B1 to B7

LCA results indicate environmental impacts resulting from use stage B1 to B7.

For textile floor coverings only modules B1 (use) and B2 (maintenance) are taken into account. Modules B3 (repair), B4 (replacement), B5 (refurbishment), B6 (operational energy use) and B7 (operational water use) are not relevant during the service life of textile floor coverings.

Module B1 'use' includes emissions to the indoor air during the use stage. Relevant emissions only occur in the first year of life (see LCA: Calculation rules).

Module B2 'maintenance' includes cleaning procedures.

Reference service life (RSL)

The actual service life of textile floor coverings depends on a wide range of various impact factors such as the allocation of the application area to the use class, maintenance, intensity of use and most often fashion and building related aspects. Therefore, technical service life cannot be defined for textile floor coverings.

Total environmental impacts from module B2

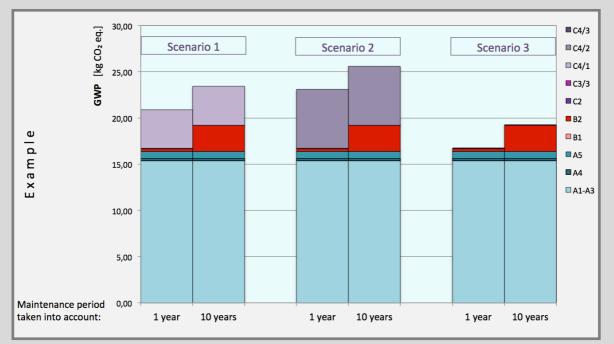
Total environmental impacts have to be calculated by taking into account the service life of textile floor coverings. Therefore, the assumed real life (ARSL) has to be used for the calculation of total environmental impacts taking into account the expected use conditions (see RSL). Module B2 (maintenance) is depending on the service life.

Values for module B2 given in the result tables are indicated for the period of one year. They have to be multiplied by the ARSL of the textile floor covering taking into account building related aspects.

The influence of the maintenance period on the Global Warming Potential (GWP) of the whole life cycle of a textile floor covering - differentiated for 3 end-of-life scenarios - is illustrated in the graph below.

3 end-of-life scenarios:

Scenario 1: 100 % Landfill disposal Scenario 2: 100 % Municipal waste incineration Scenario 3: 100 % Recycling in the cement industry



Graph 2: Global Warming Potential (GWP) - aggregation of module A to module C - taking into account a maintenance period of 1 year compared to a maintenance period of 10 years - for the three declared end-of-life scenarios.

1. Information on products with a total pile weight of max. 700 $\,\text{g/m}^2$

Product description

Name	Value	Unit
Type of manufacture	tufted tiles	-
Yarn type	polyamide 6, solution dyed	-
Max. total pile weight	700	g/m²
Secondary backing	bitumen-based heavy backing	-
Product Form	several dimensions	
Max. total carpet weight	4255	g/m²

Base materials / Ancillary materials

Name	Value for category	Unit
Polyamide 6	16,5	%
Polyester	2,8	%
Polypropylene	1,0	%
Limestone	55,6	%
Aluminiumhydroxide	4,5	%
SBR-Latex	6,3	%
Bitumen	12,1	%
Glass fibre	0,7	%
Additives	0,5	%
Recycled content out of total weight	31	%

LCA: Declared Unit

Name	Value for category	Unit
Declared unit	1,0	m²
Conversion factor to 1 kg	0,24	m²/kg
Mass reference	4,3	kg/m²

LCA: Scenarios and additional technical information

All indicated values refer to the declared functional unit

Transport to the construction site (A4)

Name	Value for category	Unit
Litres of fuel (truck, EURO 0-5 mix)	0,0071	l/100km
Transport distance	700	km
Capacity utilisation (including empty runs)	85	%

Installation in the building (A5)

Name	Value for category	Unit
Material lost	0,13	kg

Maintenance (B2)

Indication per m² and year

Name	Value for category	Unit
Maintenance cycle (wet cleaning)	1,5	1/year
Maintenance cycle (vacuum cleaning)	208	1/year
Water consumption (wet cleaning)	0,004	m³ 🛛
Cleaning agent (wet cleaning)	0,09	kg
Electricity consumption	0,314	kWh

End of Life (C1-C4)

Name	Value for category	Unit
Collected as mixed construction waste (scenario 1 and 2)	4,26	kg/m ²
Collected separately (scenario 3)	4,26	kg/m ²
Landfilling (scenario 1)	4,26	kg/m ²
Energy recovery (scenario 2)	4,26	kg/m ²
Energy recovery (scenario 3)	1,67	kg/m ²
Recycling (scenario 3)	2,59	kg/m ²



LCA: Results for products with a maximum total pile weight of 700 g/m²

The declared result figures in module B2 have to be multiplied by the assumed service time (in years) of the floor covering in the building considered (see chapter: 'General Information on use stages B1 to B7').

Information on un-declared modules:

Modules B3 - B7 are not relevant during the service life of the carpet and are therefore not declared. Modules C1, C3/1, C4/2 and C4/3 cause no additional impact and are therefore not declared. Module C2 represents the transport for scenarios 1, 2 and 3.

Description of the system boundary

State of production State of construction phase State of use End of life state Credits and loads after life stop of use / demolition waste management reuse, recovery and recycling potential raw material supply manufacturing maintenance replacement energy use installation water use transport renewal transport disposal delivery repair use A1 X A2 A3 B2 B3 B4 B5 C1 C2 C3 D A4 A5 B6 B1 **B7** C4 X X X MN D x MN D MN D MN D MN D X MN D X Х X

(X = Included in LCA: MDN = Module not declared

Results of the LCA - Environmental impact: 1 m² floor covering

Para- meter	Unit	A1-A3	A4	A5	B1	B2	C2	C3/2	C3/3	C4/1	D/A5	D/1	D/2	D/3
GWP	[kg CO2-eq]	8,79E+00	1,79E-01	4,13E-01	0,00E+00	3,21E-01	9,93E-03	4,17E+00	2,46E-02	2,99E-01	-4,89E-02	0,00E+00	-1,63E+00	-4,22E-01
ODP	[kg CFC11-eq]	3,47E-09	4,91E-15	1,01E-10	0,00E+00	1,37E-08	2,73E-16	1,15E-12	1,09E-13	8,07E-14	-1,05E-13	0,00E+00	-3,50E-12	-8,70E-12
AP	[kg SO2-eq]	1,43E-02	7,38E-04	5,18E-04	0,00E+00	1,41E-03	4,10E-05	2,64E-03	6,37E-05	7,95E-04	-7,57E-05	0,00E+00	-2,52E-03	-1,61E-03
EP	[kg PO4)3-eq]	1,80E-03	1,86E-04	7,77E-05	0,00E+00	4,42E-04	1,03E-05	6,47E-04	6,32E-06	8,32E-04	-8,56E-06	0,00E+00	-2,85E-04	-1,69E-04
POCP	[kg ethen-eq]	2,16E-03	-3,06E-04	5,84E-05	6,29E-05	1,74E-04	-1,70E-05	1,71E-04	4,36E-06	8,92E-05	-6,41E-06	0,00E+00	-2,14E-04	-2,18E-04
ADPE	[kg Sb-eq]	2,10E-06	1,34E-08	6,26E-08	0,00E+00	1,09E-06	7,46E-10	3,12E-08	1,25E-08	3,26E-08	-1,31E-08	0,00E+00	-4,37E-07	-5,21E-08
ADPF	[MJ]	1,84E+02	2,45E+00	5,51E+00	0,00E+00	6,38E+00	1,36E-01	2,48E+00	2,61E-01	4,33E+00	-6,75E-01	0,00E+00	-2,25E+01	-6,20E+01

Caption Represented by the strate of the str

Results	Results of the LCA - Resource use: 1 m² floor covering													
Para- meter	Unit	A1-A3	A4	A5	B1	B2	C2	C3/2	C3/3	C4/1	D/A5	D/1	D/2	D/3
PERE	[MJ]	1,63E+01	1,35E-01	4,91E-01	0,00E+00	1,56E+00	7,52E-03	3,68E-01	1,68E-01	3,35E-01	-1,63E-01	0,00E+00	-5,42E+00	-4,51E-01
PERM	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
PERT	[MJ]	1,63E+01	1,35E-01	4,91E-01	0,00E+00	1,56E+00	7,52E-03	3,68E-01	1,68E-01	3,35E-01	-1,63E-01	0,00E+00	-5,42E+00	-4,51E-01
PENRE	[MJ]	1,32E+02	2,46E+00	5,76E+00	0,00E+00	7,57E+00	1,36E-01	6,27E+01	6,03E+01	4,50E+00	-8,55E-01	0,00E+00	-2,85E+01	-6,24E+01
PENRM	[MJ]	5,99E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-5,99E+01	-5,99E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	1,92E+02	2,46E+00	5,76E+00	0,00E+00	7,57E+00	1,36E-01	2,80E+00	4,48E-01	4,50E+00	-8,55E-01	0,00E+00	-2,85E+01	-6,24E+01
SM	[kg]	1,87E+00	0,00E+00	5,44E-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	2,59E+00
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
NRSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-8,10E-30	6,01E+01						
FW	[m³]	2,84E-02	2,50E-04	1,33E-03	0,00E+00	7,38E-03	1,38E-05	1,66E-02	2,29E-04	-1,16E-05	-2,22E-04	0,00E+00	-7,40E-03	-5,61E-03

Caption PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERM = Use of non-renewable primary energy resources used as raw materials; PERM = Use of non-renewable primary energy resources used as raw materials; PERM = Use of non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; FW = Use of net fresh water

Results of the LCA - Output flows and waste categories: 1 m² floor covering

Para- meter	Unit	A1-A3	A4	A5	B1	B2	C2	C3/2	C3/3	C4/1	D/A5	D/1	D/2	D/3
HWD	[kg]	2,07E-07	1,42E-07	1,11E-08	0,00E+00	1,26E-09	7,88E-09	1,84E-08	2,10E-10	1,92E-08	-3,48E-10	0,00E+00	-1,16E-08	-1,30E-09
NHWD	[kg]	2,40E-01	2,06E-04	4,29E-02	0,00E+00	8,24E-03	1,15E-05	1,19E+00	3,15E-04	4,24E+00	-3,64E-04	0,00E+00	-1,21E-02	-9,23E-02
RWD	[kg]	3,28E-03	3,36E-06	9,95E-05	0,00E+00	3,95E-04	1,86E-07	1,26E-04	7,42E-05	6,39E-05	-7,15E-05	0,00E+00	-2,38E-03	-1,45E-04
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00									
MFR	[kg]	0,00E+00	0,00E+00	1,22E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,59E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	0,00E+00	1,66E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
EEE	[MJ]	0,00E+00	0,00E+00	2,05E-01	0,00E+00	0,00E+00	0,00E+00	6,83E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	[MJ]	0,00E+00	0,00E+00	3,81E-01	0,00E+00	0,00E+00	0,00E+00	1,27E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Caption HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for recycling; EEE = Exported electrical energy; EEE = Exported thermal energy