# **ENVIRONMENTAL PRODUCT DECLARATION**

as per ISO 14025 and EN 15804+A1

Owner of the Declaration	modulyss®
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-MOD-20210149-CBC1-EN
Issue date	08/07/2021
Valid to	07/07/2026

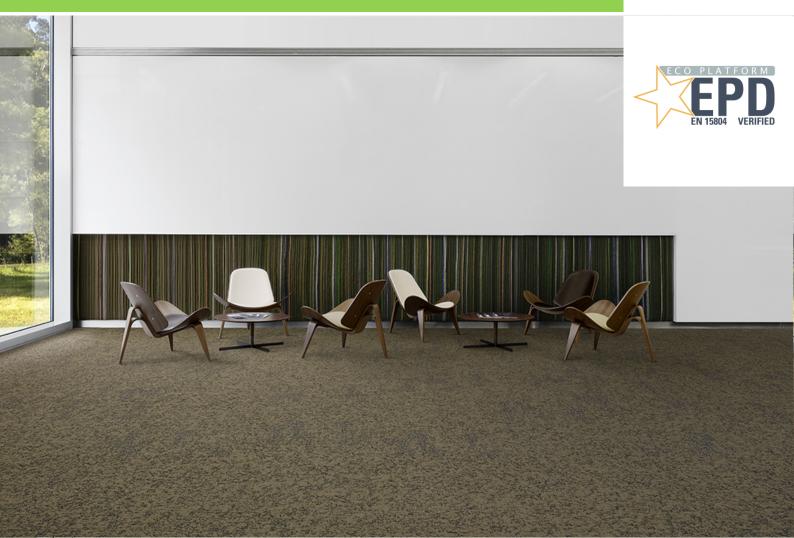
# **Tufted carpet tiles**

with a maximum total pile weight of 1300 g/m<sup>2</sup>, a pile material of 100% regenerated polyamide 6, ecoBack or comfortBack<sup>eco</sup> backing

# modulyss®



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### **General Information**

# modulyss®

#### Programme holder

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

### Declaration number

EPD-MOD-20210149-CBC1-EN

# This declaration is based on the product category rules:

Floor coverings, 02/2018 (PCR checked and approved by the SVR)

# Issue date

08/07/2021

# Valid to 07/07/2026

Man liten

Dipl. Ing. Hans Peters (chairman of Institut Bauen und Umwelt e.V.)

Dr. Alexander Röder (Managing Director Institut Bauen und Umwelt e.V.))

### **Product**

#### Product description/Product definition

Tufted carpet tiles having a surface pile of 100% regenerated polyamide 6 and an ecoBack or comfortBack<sup>eco</sup> backing.

The colour of the carpet is generated either by solution-dyed yarn or aqueous dyeing methods. The total recycled content amounts to at least 62% with a total pile weight of 1300 g/m<sup>2</sup> and a comfortBack<sup>eco</sup> backing and at least 59% with a total pile weight of 1300 g/m<sup>2</sup> and an ecoBack backing.

### **Tufted carpet tiles**

max. total pile weight 1300 g/m<sup>2</sup> 100% regenerated PA 6, ecoBack or comfortBack<sup>eco</sup> backing

### Owner of the declaration

modulyss Zevensterrestraat 21 9240 Zele Belgium

#### Declared product / declared unit

1 m<sup>2</sup> tufted carpet tiles with a surface pile of 100% regenerated PA 6 and an ecoBack or comfortBack<sup>eco</sup> backing.

#### Scope:

The manufacturer declaration applies to modular carpet tiles with ecoBack or comfortBack<sup>eco</sup>, a pile material of PA 6 with 100% recycled content and a maximum total pile weight of 1300 g/m<sup>2</sup>. The products are produced in Zele, Belgium

LCA results for products with a maximum total pile weight of 500 g/m<sup>2</sup> can be taken from the corresponding tables of the annexe. Specific data for every product within the declared group of products in relation to its total pile weight can be calculated by using equation 1 given in the annexe (see annexe chapter: 'General Information on the annexe'). 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.

The EPD was created according to the specifications of *EN* 15804+A1. In the following, the standard will be simplified as *EN* 15804.

#### 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)

The declaration applies to a group of products with a maximum total pile weight of 1300 g/m<sup>2</sup>. LCA results for products with a maximum total pile weight of 500 g/m<sup>2</sup> can be taken from the corresponding tables of the annexe. Results for specific products with any other total pile weight can be calculated by using equation 1 given in the annexe (see annexe chapter: 'General Information on the annexe').

For the placing on the market of the product in the European Union/European Free Trade Association



(EU/EFTA) (with the exception of Switzerland) *Regulation (EU) No. 305/2011* Construction Product Regulation (CPR) applies. The product needs a Declaration of Performance (DoP) taking into consideration *DIN EN 14041: 2018-05*, Resilient, textile and laminate floor coverings - Essential characteristics and the CE-marking. The DoP of the product can be found on the manufacturer's technical information section. For the application and use of the product the respective national provisions apply.

#### Application

According to the use class as defined in *EN 1307* the products can be used in professional areas. The use class can be found on the technical data sheet of the product.

#### **Technical Data**

Name	Value	Unit
Type of	Tufted tiles, solution dyed yarn	
manufacture	or aqueous dyeing methods	-
Product Form	Tiles 50 cm x 50 cm	-
Secondary	ecoBack or comfortBackeco	
backing	ecoback of cominitibackeeo	-
Yarn type	100% regenerated polyamide 6	-
Total pile weight	max. 1300	g/m²
Total carpet	max. 5000	alm <sup>2</sup>
weight	max. 5000	g/m-

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to *EN 14041: 2018-05*, Resilient, textile and laminate floor coverings - Essential characteristics.

Additional product properties in accordance with *EN* 1307 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.modulyss.com).

#### LCA: Calculation rules

#### **Declared Unit**

Name	Value	Unit
Declared unit	1	m <sup>2</sup>
Conversion factor to 1 kg	5	kg/m <sup>2</sup>

The declared unit refers to 1 m<sup>2</sup> produced textile floor covering. Output of module A5 'Assembly' is 1 m<sup>2</sup> 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

#### **Base materials/Ancillary materials**

Name	Value	Unit
Polyamide 6	26,0	%
Polyester	10,8	%
Polypropylene	0.6	%
Limestone	32,8	%
Aluminiumhydroxid e	10,1	%
SBR-latex	9,8	%
Polyolefin	8,8	%
Glass fibre	0,2	%
Additives	0,8	%

This product contains substances listed in the *ECHA candidate list* (16.01.2020) or other carcinogenic, mutagenic and reprotoxic (CMR) substances in categories 1A or 1B which are not on the candidate list exceeding 0.1 percentage by mass: no The products are registered in the *GUT-PRODIS* Information System. The *PRODIS* system ensures the compliance with limitations of various chemicals and Volatile Organic Compound (VOC)-emissions and a ban on the use of all substances that are listed as 'Substances of Very High Concern' (SVHC) under *REACH.* 

#### **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.

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.



#### B1 Use:

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 annexe, chapter 'General information on use stage').

#### <u>B3 - B7:</u>

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 needs 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.

# 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 of 1300 g/m<sup>2</sup>.

#### Transport to the construction site (A4)

Name	Value	Unit
Litres of fuel (truck, EURO 0-6 mix)	0.0117	l/100km
Transport distance	700	km
Capacity utilisation (including empty runs)	55	%

#### Installation in the building (A5)

Name	Value	Unit
Material loss	0.15	kg

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

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

C3-3: Collection of the carpet waste for recovery in the cement industry, waste processing (granulating), transport to the cement plant, emissions from the incineration.

#### 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

#### Comparability

cement plant.

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* 2021-1. Remaining data gaps are covered by the *ecoinvent* 3.6 database 2019

#### Maintenance (B2)

The values for cleaning refer to  $1 \text{ m}^2$  floor covering used in commercial areas per year. Depending on the application based on *ISO 10874*, the technical service life recommended by the manufacturer and the anticipated strain on the floor by customers, the casespecific 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.

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 <sup>3</sup>
Cleaning agent (wet cleaning)	0.09	kg
Electricity consumption	0.314	kWh

Further information on cleaning and maintenance see www.modulyss.com

#### 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% recycling 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) with x% + y% + z% = 100%

Name	Value	Unit
Collected as mixed construction waste (scenario 1 and 2)	5	kg
Collected separately (scenario 3)	5	kg
Landfilling (scenario 1)	5	kg
Energy recovery (scenario 2)	5	kg
Energy recovery (scenario 3)	2.844	kg
Recycling (scenario 3)	2.156	kg

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

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> VDZ e.V.

The organic material of the carpet is used as secondary fuel in a cement kiln. It mainly substitutes for lignite (61.9%), hard coal (26.8%) and petrol coke (11.3%).

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



### LCA: Results

The LCA results refer to all declared products with a maximum total pile weight of 1300 g/m<sup>2</sup>. LCA results for products with a maximum total pile weight of 500 g/m<sup>2</sup> can be taken from the corresponding tables of the annexe. Results for specific products with any other total pile weight can be calculated by using equation 1 given in the annexe (see annexe chapter: 'General Information on the annexe'). 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. Information on non-relevant modules: Modules B3 - B7 are not relevant during the service life of the carpet. Modules C1, C3/1, C4/2 and C4/3 cause no additional impact (see chapter "LCA: Calculation rules" in this document). All these modules are declared and marked as 'modules not relevant/declared'. Module C2 represents the transport for scenarios 1, 2 and 3. Column D represents module D/A5. The calculations are based on the CML characterization factors (version August 2016).

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   | Replacement  | Refurbishment  
   | Operational energy  
  | use<br>Operational water   | use<br>De-construction  
  | demolition  | Transport  | Waste processing  
  | Disposal   | Reuse-<br>Recoverv-   | Recycling-<br>potential  |
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| Caption         Eutrophication potential, POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-<br>fossil resources; ADPF = Abiotic depletion potential for fossil resources           RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A1: 1 m <sup>2</sup><br>floorcovering |   
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   | C3/2           5.41E           0         0.00E           2         5.41E           1         3.78E           0         -3.41E   
  | CEU           C:           -1         7.99           +0         0.000           -1         7.99           +1         3.88           +1         -3.41   | for fossi<br>SE ac<br>9/3<br>DE-1 3<br>E+0 0.<br>DE-1 3<br>E+1 5<br>E+1 0.  
  | <b>C4/1</b><br>79E-1<br>00E+0<br>79E-1<br>23E+0<br>00E+0  | ces<br>ing 1<br>-7.88<br>0.001<br>-7.88<br>-3.55<br>0.001  | Abiotic<br>COEN<br>BE-2 0.<br>E+0 0.<br>BE-2 0.<br>BE-2 0.<br>BE-1 0.<br>E+0 0.   
  | D/1<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0  | 4+A1: 1<br>D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>-7.39E+0<br>0.00E+0  | <b>D/3</b><br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1<br>0.00E+0   |
| Floor<br>Parame<br>PER<br>PER<br>PENF<br>PENF<br>PENF<br>SM  | eter       E       M       T       RM       RM       RT       I   
   | Init<br>Unit<br>[MJ]<br>[MJ]<br>[MJ]<br>[MJ]   | <b>A1-A3</b><br>6.87E+1<br>3.90E-1<br>6.91E+1<br>1.26E+2<br>3.43E+1<br>1.61E+2<br>1.91E+0  | A - INDI<br>2.27E-1<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>4.07E+0<br>0.00E+0   | fossi<br>CATO<br>2.49E+0<br>-3.90E-1<br>2.10E+0<br>5.28E+0<br>-2.15E-1<br>5.06E+0<br>5.73E-2  
  | B1<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E  | rees; AD<br>DES<br>+0 1.2<br>+0 0.0<br>+0 1.2<br>+0 7.8<br>+0 0.0<br>+0 7.8<br>+0 0.0  
   | PF = /<br>CRI<br>82<br>4E+0<br>0E+0<br>4E+0<br>6E+0<br>0E+0<br>0E+0<br>0E+0  | Abiotic c<br>BE R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+  
   | Image: Case of the second se  
   | CE         U           1         7.99           +0         0.000           -1         7.99           +0         3.88           +1         3.88           +1         -3.47           +0         4.79           +0         0.00  | SE ac           3/3           JE-1   
  | C4/1<br>79E-1<br>79E-1<br>79E-1<br>23E+0<br>00E+0<br>23E+0<br>00E+0<br>00E+0<br>00E+0   | Ces<br>ing 1<br>-7.88<br>0.001<br>-7.88<br>-3.55<br>0.001<br>-3.55<br>0.001  | Abiotic<br>to EN<br>3E-2 0.<br>E+0 0.<br>3E-2 0.<br>5E-2 0.<br>5E-1 0.<br>E+0 0.<br>5E-1 0.   | D/1<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0   
  | 4+A1: 7<br>D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>-7.39E+0<br>0.00E+0<br>-7.39E+0<br>0.00E+0   | D/3<br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>4.80E-1   |
| Floore<br>Perame<br>PER<br>PER<br>PER<br>PEN<br>PEN<br>SM<br>SM  | eter           E           M           T           RE           RM           RM           RT           RT           I           I   
   | Init<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>Kg<br>MJ   | A1-A3<br>6.87E+1<br>3.90E-1<br>6.91E+1<br>1.26E+2<br>3.43E+1<br>1.61E+2<br>1.91E+0<br>0.00E+0  | A - INDI<br>2.27E-1<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>4.07E+0<br>0.00E+0<br>0.00E+0  | fossi<br>CATO<br>A5<br>2.49E+0<br>-3.90E-1<br>2.10E+0<br>5.28E+0<br>-2.15E-1<br>5.06E+0<br>5.73E-2<br>0.00E+0   
  | B1<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E   | rees; AD<br>DES<br>+0 1.2<br>+0 0.00<br>+0 1.2<br>+0 7.8<br>+0 0.00<br>+0 7.8<br>+0 0.00<br>+0 0.00  
   | PF = /<br>CRI<br>4E+0<br>0E+0<br>4E+0<br>6E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0  | Abiotic c<br>BE R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>0.00E+  
   | Image: Provide with the second system           ESOUI           ESOUI           2           5.41E           0           2           5.41E           0           2           5.41E           0           0           3.73E           0           0           0           0   
  | CE         C           -1         7.99           +0         0.000           -1         7.99           +1         3.88           +1         -3.47           +0         4.79           +0         0.000           +0         0.000   | SE ac           SE-1         3           E-1         3           E+0         0           DE-1         3           E+1         5           E+1         5           E+0         5           E+0         0           E+1         0           E+1         0           E+1         0           E+0         0           E+0         0   
  | C4/1<br>79E-1<br>00E+0<br>79E-1<br>23E+0<br>00E+0<br>23E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0  | Ces<br>ing 1<br>-7.88<br>0.001<br>-7.88<br>-3.55<br>0.001<br>-3.55<br>0.001<br>0.001   | Abiotic<br>to EN<br>3E-2 0.<br>E+0 0.<br>3E-2 0.<br>5E-1 0.<br>E+0 0.<br>E+0 0.<br>E+0 0.<br>E+0 0.   
  | <b>D/1</b><br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0   | 4+A1: /<br>D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>-7.39E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0  | <b>D/3</b><br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>4.80E-1<br>0.00E+0   |
| Floor<br>Parame<br>PER<br>PER<br>PENF<br>PENF<br>PENF<br>SM  | eter            E            M            T            RE            RM            RT            RT            I            I            I            I            IF   
   | Img           Unit           [MJ]   | A1-A3<br>6.87E+1<br>3.90E-1<br>6.91E+1<br>1.26E+2<br>3.43E+1<br>1.61E+2<br>1.91E+0<br>0.00E+0<br>0.00E+0   | A - INDI<br>2.27E-1<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0  | fossi           A5           2.49E+0           -3.90E-1           2.10E+0           5.28E+0           -2.15E-1           5.06E+0           5.73E-2           0.00E+0           0.00E+0   
   | B1<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E   | ces; AD<br>DES<br>+0 1.2<br>+0 1.2<br>+0 0.0<br>+0 1.2<br>+0 7.8<br>+0 0.0<br>+0 7.8<br>+0 0.0<br>+0 0.0<br>+0 0.0  
  | PF = /<br>CRI<br>4E+0<br>0E+0<br>4E+0<br>6E+0<br>0E+0<br>6E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0   | Abiotic c<br>BE R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>0.00E+<br>0.00E+   
  | Image         Image <th< td=""><td>Dotential           CE         U           -1         7.99           +0         0.000           -1         7.99           +1         3.88           +1         -3.47           +0         0.000           +0         0.000           +0         0.000           +0         0.000</td><td>SE ac           SE-1         3           E-1         3           E+0         0           DE-1         3           E+1         5           E+1         5           E+0         0           E+1         0           E+1         0           E+0         0           E+0         0           E+0         0</td><td>C4/1<br/>79E-1<br/>00E+0<br/>79E-1<br/>23E+0<br/>00E+0<br/>23E+0<br/>00E+0<br/>00E+0<br/>00E+0<br/>00E+0</td><td>Ces<br/>ing 1<br/>-7.88<br/>0.001<br/>-7.88<br/>-3.55<br/>0.001<br/>-3.55<br/>0.001<br/>0.001<br/>0.001</td><td>Abiotic<br/>to EN<br/>3E-2 0.<br/>E+0 0.<br/>3E-2 0.<br/>E+0 0.<br/>3E-1 0.<br/>5E-1 0.<br/>5E-1 0.<br/>5E-1 0.<br/>5E-1 0.<br/>5E-1 0.<br/>5E-1 0.<br/>5E-2 0.<br/>5E-1 0.</td><td>D/1           .00E+0           .00E+0</td><td>4+A1: 7<br/>D/2<br/>-1.61E+0<br/>0.00E+0<br/>-1.61E+0<br/>-7.39E+0<br/>0.00E+0<br/>-7.39E+0<br/>0.00E+0</td><td>D/3<br/>-5.08E-1<br/>0.00E+0<br/>-5.08E-1<br/>-3.26E+1<br/>0.00E+0<br/>-3.26E+1<br/>4.80E-1<br/>0.00E+0<br/>0.00E+0</td></th<>  | Dotential           CE         U           -1         7.99           +0         0.000           -1         7.99           +1         3.88           +1         -3.47           +0         0.000           +0         0.000           +0         0.000           +0         0.000  
  | SE ac           SE-1         3           E-1         3           E+0         0           DE-1         3           E+1         5           E+1         5           E+0         0           E+1         0           E+1         0           E+0         0           E+0         0           E+0         0  
   | C4/1<br>79E-1<br>00E+0<br>79E-1<br>23E+0<br>00E+0<br>23E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0  | Ces<br>ing 1<br>-7.88<br>0.001<br>-7.88<br>-3.55<br>0.001<br>-3.55<br>0.001<br>0.001<br>0.001  | Abiotic<br>to EN<br>3E-2 0.<br>E+0 0.<br>3E-2 0.<br>E+0 0.<br>3E-1 0.<br>5E-1 0.<br>5E-1 0.<br>5E-1 0.<br>5E-1 0.<br>5E-1 0.<br>5E-1 0.<br>5E-2 0.<br>5E-1 0.   | D/1           .00E+0  | 4+A1: 7<br>D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>-7.39E+0<br>0.00E+0<br>-7.39E+0<br>0.00E+0  
  | D/3<br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>4.80E-1<br>0.00E+0<br>0.00E+0   |
| Floore<br>Paramo<br>PER<br>PER<br>PEN<br>PEN<br>PEN<br>SM<br>RSF   | Eeter   
   | Imp           Unit           [MJ]   | A1-A3<br>6.87E+1<br>3.90E-1<br>6.91E+1<br>1.26E+2<br>3.43E+1<br>1.61E+2<br>1.91E+0<br>0.00E+0<br>0.00E+0<br>1.90E-1<br>Use of ro   | A - INDI<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.60E-4<br>enewable  |
60551<br>CATO<br>2.49E+0<br>-3.90E-1<br>2.10E+0<br>5.28E+0<br>-2.15E-1<br>5.06E+0<br>5.73E-2<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+ | I resour           RS T(           B1           0.00E   | cces; AD           D DES           I           +0         1.2           +0         0.00           +0         7.8           +0         7.8           +0         0.00           +0           +0         0.00 <td>BPF = 7<br/>BCRI<br/>4E+0<br/>0E+0<br/>4E+0<br/>6E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>3E-3<br/>ng rer</td> <td>Abiotic c<br/>BE R<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>0.00E+<br/>1.45E-<br/>tewable</td> <td>Image: Control of the second second</td> <td>Dotential           CE         U           -1         7.99           +0         0.000           -1         7.99           +1         3.88           +1         -3.47           +0         0.000</td> <td>for fossi           SE ac           3/3           9E-1           3/E+0           9E-1           3/E+1           5           E+1           5           E+1           0           E+1           0           E+1           0           E+0           0           E+2           4           resource</td> <td><b>C4/1</b><br/>79E-1<br/>00E+0<br/>79E-1<br/>23E+0<br/>00E+0<br/>23E+0<br/>00E+0<br/>00E+0<br/>00E+0<br/>82E-5<br/>es use</td> <td>ces<br/>ing 1<br/>-7.88<br/>0.001<br/>-7.88<br/>-3.55<br/>0.001<br/>-3.55<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>0.00000000</td> <td>Abiotic<br/><b>10 EN</b><br/><b>3E-2</b> 0.<br/><b>5E-2</b> 0.<br/><b>5E-1</b> 0.<br/><b>5E-</b></td> <td>D/1<br/>00E+0<br/>00E+0<br/>00E+0<br/>00E+0<br/>00E+0<br/>00E+0<br/>00E+0<br/>00E+0<br/>00E+0<br/>00E+0<br/>00E+0<br/>00E+0<br/>terials; F</td> <td>4+A1: 7<br/>D/2<br/>-1.61E+0<br/>0.00E+0<br/>-1.61E+0<br/>-7.39E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>-1.58E-3<br/>ERM = L</td> <td>D/3<br/>-5.08E-1<br/>0.00E+0<br/>-5.08E-1<br/>-3.26E+1<br/>0.00E+0<br/>-3.26E+1<br/>4.80E-1<br/>0.00E+0<br/>-3.08E-3<br/>Jse of</td>  
   | BPF = 7<br>BCRI<br>4E+0<br>0E+0<br>4E+0<br>6E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>3E-3<br>ng rer  | Abiotic c<br>BE R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>0.00E+<br>1.45E-<br>tewable   | Image: Control of the second  
   | Dotential           CE         U           -1         7.99           +0         0.000           -1         7.99           +1         3.88           +1         -3.47           +0         0.000  
  | for fossi           SE ac           3/3           9E-1           3/E+0           9E-1           3/E+1           5           E+1           5           E+1           0           E+1           0           E+1           0           E+0           0           E+2           4           resource   | <b>C4/1</b><br>79E-1<br>00E+0<br>79E-1<br>23E+0<br>00E+0<br>23E+0<br>00E+0<br>00E+0<br>00E+0<br>82E-5<br>es use   | ces<br>ing
1<br>-7.88<br>0.001<br>-7.88<br>-3.55<br>0.001<br>-3.55<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.001<br>0.00000000   | Abiotic<br><b>10 EN</b><br><b>3E-2</b> 0.<br><b>5E-2</b> 0.<br><b>5E-1</b> 0.<br><b>5E-</b>  | D/1<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>terials; F  | 4+A1: 7<br>D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>-7.39E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>-1.58E-3<br>ERM = L  | D/3<br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>4.80E-1<br>0.00E+0<br>-3.08E-3<br>Jse of  |
| Floore<br>Paramo<br>PER<br>PER<br>PEN<br>PEN<br>PEN<br>SM<br>RSF   | eter<br>E<br>M<br>T<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R   
   | Init       [MJ]       [m]       PERE =       ewable       non-ren       non-ren   | HE LC/<br>A1-A3<br>6.87E+1<br>3.90E-1<br>6.91E+1<br>1.26E+2<br>1.91E+0<br>0.00E+0<br>1.90E-1<br>Use of ro-<br>primary elevable por<br>primary elevable por<br>timary elevable por<br>t   | A - INDI<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.60E-4<br>enewable  | fossi           A5           2.49E+0           -3.90E-1           2.10E+0           5.28E+0           -2.15E-1           5.06E+0           5.73E-2           0.00E+0           6.32E-3           primary eources us           ources us  | Intersection           RS         TO           0.00E         0.00E  | cces; AD           DDES           I           +0         1.2;           +0         0.0;           +0         7.8;           +0         7.8;           +0         7.0;           +0         7.0;           +0         7.0;           +0         7.0;           +0         7.0;           +0         7.0;           +0         7.0;           +0        
7.0;           +0            
  | PPF = /<br>SCRI<br>B2<br>4E+0<br>0E+0<br>4E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>1E+0<br>0E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0<br>1E+0    | Abiotic c<br>BE R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>0.00E+<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>1.26E-<br>0.00E+<br>1.26E-<br>1.27E-<br>0.00E+<br>1.25E-<br>1.26E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1.25E-<br>1 | Image         Image <th< td=""><td>C:         C:           -1         7.99           +0         0.000           -1         7.99           +0         0.001           +1         3.88           +1         3.44           +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           +1         -1           +1         -1           +0         0.000           +0         0.000           +0         0.000           +0         0.000           +0         0.000           +0         0.000           +0         0.000</td><td>for fossi           SE ac           3/3           JE-1           JE-1           SE           JE-1           SE           JE           JE</td><td>C4/1<br/>79E-1<br/>00E+0<br/>79E-1<br/>23E+0<br/>00E+0<br/>23E+0<br/>00E+0<br/>00E+0<br/>82E-5<br/>es use<br/>e prima<br/>d as rate</td><td>cces           ing 1           -7.88           0.001           -7.88           0.001           -7.88           0.001           -3.55           0.001           -3.55           0.001           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700</td><td>Abiotic<br/><b>10 EN</b><br/><b>10 E</b>-2 0.<br/><b>10 E</b>-2 0.<br/><b>10 E</b>-2 0.<br/><b>10 E</b>-2 0.<br/><b>10 E</b>-2 0.<br/><b>10 E</b>-2 0.<br/><b>10 E</b>-1 0.</td><td>D/1<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+0<br/>.00E+</td><td>4+A1:<br/>D/2<br/>-1.61E+0<br/>0.00E+0<br/>-1.61E+0<br/>-7.39E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>1.58E-3<br/>PERM = L<br/>; PENRE<br/>I = Use of<br/>ources; S</td><td><b>D/3</b><br/>-5.08E-1<br/>0.00E+0<br/>-5.08E-1<br/>-3.26E+1<br/>0.00E+0<br/>-3.26E+1<br/>4.80E-1<br/>0.00E+0<br/>-3.08E-3<br/>Jse of<br/>= Use of<br/>f non-<br/>SM = Use</td></th<> | C:         C:           -1         7.99           +0         0.000           -1         7.99           +0         0.001           +1         3.88           +1         3.44           +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           +1         -1           +1         -1           +0         0.000           +0         0.000           +0         0.000           +0         0.000           +0         0.000           +0         0.000           +0         0.000  
   | for fossi           SE ac           3/3           JE-1           JE-1           SE           JE-1           SE           JE   | C4/1<br>79E-1<br>00E+0<br>79E-1<br>23E+0<br>00E+0<br>23E+0<br>00E+0<br>00E+0<br>82E-5<br>es use<br>e prima<br>d as rate   | cces           ing 1           -7.88           0.001           -7.88           0.001           -7.88           0.001           -3.55           0.001           -3.55           0.001           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700           -7.700  
  | Abiotic<br><b>10 EN</b><br><b>10 E</b> -2 0.<br><b>10 E</b> -1 0.  | D/1<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+0<br>.00E+ | 4+A1:<br>D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>-7.39E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.58E-3<br>PERM = L<br>; PENRE<br>I = Use of<br>ources; S   | <b>D/3</b><br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>4.80E-1<br>0.00E+0<br>-3.08E-3<br>Jse of<br>= Use of<br>f non-<br>SM = Use   |
| Floored<br>Parama<br>PER<br>PER<br>PENF<br>PENF<br>PENF<br>SM<br>RSF<br>NRSS<br>FW<br>Captio   | COVE<br>eter<br>E<br>M<br>M<br>T<br>T<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>r<br>end<br>r<br>end<br>r<br>end<br>r<br>end<br>r<br>end<br>r<br>end<br>r<br>eter<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I  
   | Image       Unit       [MJ]       [M]       [M]       [M]       [M]       [M]       [M]       [M]       [M]       [M]       [M] | A1-A3<br>6.87E+1<br>3.90E-1<br>1.26E+2<br>3.43E+1<br>1.61E+2<br>1.91E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.90E-1<br>Use of ro<br>primary e<br>ewable p<br>primary e<br>y materia<br>HE LC/  | A - INDI<br>2.27E-1<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.60E-4<br>enewable<br>nergy ress<br>rimary en-<br>nergy ress   | fossi           A5           2.49E+0           3.90E-1           2.10E+0           5.28E+0           -2.15E-1           5.06E+0           5.73E-2           0.00E+0           0.00E  | B1<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E  
   | test         test   
  | PPF = .<br>CRI<br>4E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0   | Abiotic c<br>BE
R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1 | Image: Control of the second  
   | cc:         cc:           1         7.99           +0         0.00           +1         3.88           +1         3.47           +0         0.00           +1         3.84           +1         3.47           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +1         1.95           0         1.95           0         1.95           0         1.95           0         1.95           0         1.95           0         1.95           0         1.95           0         1.95           0         1.95           0         1.95           0         1.  | for fossi           SE ac           33           9E-1           38           E+1           5           E+1           5           E+1           5           E+1           5           E+1           5           E+1           5           E+0           E+0           0           E+2           4           resourc           non-rere           non-rene   
   | C4/1<br>79E-1<br>79E-1<br>79E-1<br>79E-1<br>23E+0<br>00E+0<br>23E+0<br>00E+0<br>82E-5<br>es user<br>e prima<br>d as rate<br>as rate wablels   | cces           ing 1           -7.88           0.000           -7.88           0.001           -7.88           -3.55           0.001           -3.55           0.000           -3.55           0.001           -7.702           0.001           -7.702           d as right range of the prime second  | Abiotic<br>to EN<br>BE-2 0<br>E+0 0<br>E+0 0<br>E-1 0<br>E+0 0<br>E+0 0<br>E+0 0<br>E+0 0<br>E+0 0<br>aw materials;<br>ary end<br>dary fur   
   | <b>D/1</b><br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0  | 4+A1: 7<br>D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.58E-3<br>PERRE<br>I = Use of<br>ources; S<br>= Use of  | <b>D/3</b><br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>4.80E-1<br>0.00E+0<br>-3.08E-3<br>Jse of<br>= Use of<br>f non-<br>SM = Use   |
| Floored<br>Parama<br>PER<br>PER<br>PENF<br>PENF<br>PENF<br>SM<br>RSF<br>NRSS<br>FW<br>Captio   | COVE<br>eter<br>E<br>M<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T   
   | ring<br>Unit<br>[MJ]<br>[MJ]<br>[MJ]<br>[MJ]<br>[MJ]<br>[MJ]<br>[MJ]<br>[MJ]   | A1-A3<br>6.87E+1<br>3.90E-1<br>1.26E+2<br>3.43E+1<br>1.61E+2<br>1.91E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.90E-1<br>Use of ro<br>primary e<br>ewable p<br>primary e<br>y materia<br>HE LC/  | A - INDI<br>2.27E-1<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.60E-4<br>enewable<br>nergy ress<br>rimary en<br>nergy ress<br>al; RSF =  | fossi           A5           2.49E+0           3.90E-1           2.10E+0           5.28E+0           -2.15E-1           5.06E+0           5.73E-2           0.00E+0           0.00E   
  | B1<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E  | ces; AD           D DES           I           +0         1.2:           +0         0.00           +0         7.8:           +0         0.00           +0         7.8:           +0         0.00           +0         7.8:           +0         0.00           +0         7.8:           +0         0.00           +0         4.1:           excluding aw mather on-renerative second seco  
  | PPF = .<br>CRI<br>4E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0   | Abiotic c<br>BE
R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1 | Image: Control of the second  
   | Dotential           CE         U           -1         7.99           +0         0.00           -1         7.99           +1         3.48           +0         0.00           +1         3.49           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           -2         2.00           se of nc         resource           I use of nc         se of nc           FLOV         1   | for fossi           SE ac           33           9E-1           38           E+1           5           E+1           5           E+1           5           E+1           5           E+1           5           E+1           5           E+0           E+0           0           E+2           4           resourc           non-rere           non-rene   
   | C4/1<br>79E-1<br>79E-1<br>79E-1<br>79E-1<br>23E+0<br>00E+0<br>23E+0<br>00E+0<br>82E-5<br>es user<br>e prima<br>d as rate<br>as rate wablels   | cces           ing 1           -7.88           0.000           -7.88           0.001           -7.88           -3.55           0.001           -3.55           0.000           -3.55           0.001           -7.702           0.001           -7.702           d as right range of the prime second  | Abiotic<br><b>IDE</b> -2 0<br><b>E</b> -2 0<br><b>E</b> -2 0<br><b>E</b> -1 0<br><b>E</b> -2 0<br><b>E</b> -1 0<br><b></b> | <b>D/1</b><br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0<br>00E+0   
  | 4+A1: 7<br>D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.58E-3<br>PERRE<br>I = Use of<br>ources; S<br>= Use of  | <b>D/3</b><br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>4.80E-1<br>0.00E+0<br>-3.08E-3<br>Jse of<br>= Use of<br>f non-<br>SM = Use   |
| floord<br>Parama<br>PER<br>PENF<br>PENF<br>PENF<br>SM<br>RSF<br>NRS<br>FW<br>Captio  | eter<br>E<br>M<br>T<br>T<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R   
   | ring<br>Unit<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ   | HE LC/<br>A1-A3<br>6.87E+1<br>3.90E-1<br>6.91E+1<br>1.26E+2<br>3.43E+1<br>1.61E+2<br>1.91E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.90E-1<br>Use of re-<br>primary en-<br>ewable p<br>primary en-<br>ewable p<br>primary en-<br>the constant of the c   | A - INDI<br>2.27E-1<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.60E-4<br>enewable<br>nergy resarrimary en<br>nergy res<br>al; RSF =   | fossi           A5           2.49E+0           -3.90E-1           2.10E+0           5.28E+0           -2.15E-1           5.06E+0           5.73E-2           0.00E+0           0.00  | B1<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E<br>0.00E | cess; AD           D DES           I           +0         1.2;           +0         0.00;           +0        
7.8;           +0         7.8;           +0         0.00;           +0         7.8;           +0         0.00;      +0         0.00;  
  | PPF = .<br>CCRI<br>B2<br>4E+0<br>0E+0<br>4E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>S AI<br>B2<br>B2<br>DE-10   | Abiotic c<br>BE R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>0.00E+<br>0.00E+<br>1.45E-<br>3.27E-<br>0.00E+<br>1.45E-<br>3.27E-<br>0.00E+<br>1.45E-<br>3.27E-<br>0.00E+<br>1.45E-<br>3.27E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>0.00E+<br>1.45E-<br>1.45E-<br>1.45E-<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0.00E+<br>0 | Image: Control of the second state in the s  
   | CE         C           1         7.99           -0         0.00           -1         7.99           -0         1           -0         1           +1         3.88           +1         -3.47           +0         0.00           +0 <td< td=""><td>for fossi           SE ac           3/3           E-1           3/2           E+0           0.9           E+1           5           E+1           5           E+1           5           E+1           0.0           E+0           E+0           0.0           E+0           E+0           0.0           E+0           0.0           E+0           0.0           E+0           0.0           E+0           0.0           E+0           0.0           E+2           4           resourceneeve           NS ac           N3           Y2</td><td>I resourt           C4/1           79E-1           00E+00           00E+00  </td><td>rces<br/>ing 1<br/>-7.88<br/>0.001<br/>-7.88<br/>0.001<br/>-7.88<br/>-7.85<br/>0.001<br/>0.001<br/>0.001<br/>0.001<br/>-7.70<br/>d as ra<br/>ary en<br/>w mate<br/>e prim<br/>second<br/>D<br/>D<br/>-7.95</td><td>Abiotic<br/>to EN<br/>E-2 0<br/>E-2 0<br/>E-1 0<br/>E-1 0<br/>E-1 0<br/>E-1 0<br/>E-1 0<br/>E+0 0<br/>E-1 0<br/>E+0 0<br/>E-1 0</td><td>1580           D/1           .00E+0           .00E+0</td><td>4+A1:
7<br/>D/2<br/>-1.61E+0<br/>0.00E+0<br/>-1.61E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+3<br/>2ERM = L<br/>; PENRE<br/>I = Use of<br/>ources; S<br/>= Use of<br/>4+A1:</td><td>D/3<br/>-5.08E-1<br/>0.00E+0<br/>-5.08E-1<br/>-3.26E+1<br/>0.00E+0<br/>-3.26E+1<br/>0.00E+0<br/>-3.26E+1<br/>4.80E-1<br/>0.00E+0<br/>-3.08E-3<br/>Jse of<br/>= Use of<br/>f non-<br/>SM = Use<br/>net fresh<br/>D/3</td></td<> | for fossi           SE ac           3/3           E-1           3/2           E+0           0.9           E+1           5           E+1           5           E+1           5           E+1           0.0           E+0           E+0           0.0           E+0           E+0           0.0           E+0           0.0           E+0           0.0           E+0           0.0           E+0           0.0           E+0           0.0           E+2           4           resourceneeve           NS ac           N3           Y2  | I resourt           C4/1           79E-1           00E+00  | rces<br>ing 1<br>-7.88<br>0.001<br>-7.88<br>0.001<br>-7.88<br>-7.85<br>0.001<br>0.001<br>0.001<br>0.001<br>-7.70<br>d as ra<br>ary en<br>w mate<br>e prim<br>second<br>D<br>D<br>-7.95   | Abiotic<br>to EN<br>E-2 0<br>E-2 0<br>E-1 0<br>E-1 0<br>E-1 0<br>E-1 0<br>E-1 0<br>E+0 0<br>E-1 0<br>E+0 0<br>E-1 0   
   | 1580           D/1           .00E+0  | 4+A1: 7<br>D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+3<br>2ERM = L<br>; PENRE<br>I = Use of<br>ources; S<br>= Use of<br>4+A1:   | D/3<br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>4.80E-1<br>0.00E+0<br>-3.08E-3<br>Jse of<br>= Use of<br>f non-<br>SM = Use<br>net fresh<br>D/3   |
| floord<br>Parama<br>PER<br>PER<br>PENF<br>PENF<br>SM<br>RSF<br>NRS<br>FW<br>Captio   | COVE<br>eter<br>E<br>M<br>T<br>T<br>T<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R  
   | ring<br>Unit<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ   | HE LC/<br>A1-A3<br>6.87E+11<br>3.90E-1<br>6.91E+11<br>1.61E+2<br>3.43E+11<br>1.61E+2<br>1.91E+0<br>0.00E+0<br>1.90E-1<br>Use of re-<br>orimary ee<br>wable p<br>primary ee<br>wable p<br>the LC/<br>ing<br>A1-A3<br>3.79E-3<br>8.56E-1   | A - INDI<br>2.27E-1<br>0.00E+0<br>2.27E+1<br>4.07E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.60E-4<br>enewables<br>nergy resa<br>al; RSF =<br>A - WA<br>A4<br>2.05E-10<br>6.05E-4  | fossi           A5           2.49E+0           -3.90E-1           2.10E+0           5.28E+00           -2.15E-1           5.06E+00           5.73E-2           0.00E+00           6.32E-33           primary 60           ources us           use of re           STE C/           A5           1.14E-4           6.06E-2   
  | Iresour           RS TO           B1           0.00E           as newab           ATEG           B1           0.00E           0.00E   | cces; AD           D DES           I <t< td=""><td>PPF = .<br/>CCRI<br/>82<br/>4E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>0E+0<br/>1S AI<br/>82<br/>DE-10<br/>2E-3</td><td>Abiotic c<br/>BE R<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>1.26E-<br/>2.27E-<br/>0.00E+<br/>1.26E-<br/>2.27E-<br/>0.00E+<br/>1.26E-<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2.27E-<br/>2</td><td>Image: Control of the second state in the s</td><td>Dotential           CE         U           -1         7.99           +0         0.00           +1         7.99           +1         3.41           +0         0.00           +1         3.41           +0         0.00           +0         0.00           +0         0.00           -2         2.00           -2         2.00           -3         -4           -2         2.00           -3         -5           -4         -7.99           -5         -6           -6         0.00           -2         2.00           -2         2.00           -2         2.00           -2         2.00           -2         2.00           -2         2.00           -2         2.00           -3         -4           -4         -7           -5         -7           -6         -7           -7         -7           -7         -7           -7         -7           -7         -7  </td><td>for fossi           SE ac           SE           E+0           SE+0           SE           SE</td><td>I resour           I resource           I resource</td><td>rces<br/>ing
1<br/>-7.88<br/>0.000<br/>-7.88<br/>0.000<br/>-7.88<br/>0.000<br/>-3.55<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.000000</td><td>Abiotic<br/>COEN<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>2015<br/>20</td><td>1580           D/1           .00E+0           .00E+0</td><td>4+A1: 7<br/>D/2<br/>-1.61E+0<br/>0.00E+0<br/>-1.61E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+3<br/>7.39E+0<br/>0.00E+0<br/>1.58E-3<br/>2ERM = L<br/>; PENRE<br/>I = Use of<br/>0.00Ce+0<br/>4+A1:<br/>D/2<br/>-1.65E-9<br/>-3.41E-3</td><td>D/3           -5.08E-1           0.00E+0           -5.08E-1           -3.26E+1           0.00E+0           -3.26E+1           0.00E+0           -3.08E-3           Jse of           = Use of           fnon-           SM = Use           net fresh           D/3           -2.45E-9           -2.38E-1</td></t<> | PPF = .<br>CCRI<br>82<br>4E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>1S AI<br>82<br>DE-10<br>2E-3  | Abiotic c<br>BE
R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>2.27E-<br>0.00E+<br>2.27E-<br>2.27E-<br>0.00E+<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2 | Image: Control of the second state in the s   
  | Dotential           CE         U           -1         7.99           +0         0.00           +1         7.99           +1         3.41           +0         0.00           +1         3.41           +0         0.00           +0         0.00           +0         0.00           -2         2.00           -2         2.00           -3         -4           -2         2.00           -3         -5           -4         -7.99           -5         -6           -6         0.00           -2         2.00           -2         2.00           -2         2.00           -2         2.00           -2         2.00           -2         2.00           -2         2.00           -3         -4           -4         -7           -5         -7           -6         -7           -7         -7           -7         -7           -7         -7           -7         -7  | for fossi           SE ac           SE           E+0           SE+0           SE  
  | I resour           I resource           I resource | rces<br>ing 1<br>-7.88<br>0.000<br>-7.88<br>0.000<br>-7.88<br>0.000<br>-3.55<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.0000<br>0.0000<br>0.0000<br>0.000000  | Abiotic<br>COEN<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>20  | 1580           D/1           .00E+0   
   | 4+A1: 7<br>D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+3<br>7.39E+0<br>0.00E+0<br>1.58E-3<br>2ERM = L<br>; PENRE<br>I = Use of<br>0.00Ce+0<br>4+A1:<br>D/2<br>-1.65E-9<br>-3.41E-3  | D/3           -5.08E-1           0.00E+0           -5.08E-1           -3.26E+1           0.00E+0           -3.26E+1           0.00E+0           -3.08E-3           Jse of           = Use of           fnon-           SM = Use           net fresh           D/3           -2.45E-9           -2.38E-1  |
| floord<br>Parama<br>PER<br>PER<br>PENF<br>PENF<br>PENF<br>SM<br>RSS<br>FW<br>Captio<br>Captio  | eter     E       E     M       T     T       RM     R       RT     R       RT     R       F     R       F     R       I     I       F     R       I     I       I     I       R     I       I     I <t< td=""><td>ring<br/>Unit<br/>MJ<br/>MJ<br/>MJ<br/>MJ<br/>MJ<br/>MJ<br/>MJ<br/>MJ<br/>MJ<br/>MJ<br/>MJ<br/>MJ<br/>MJ</td><td>HE LC/<br/>A1-A3<br/>6.87E+1<br/>3.90E-1<br/>6.91E+1<br/>1.26E+2<br/>3.43E+1<br/>1.61E+2<br/>1.91E+0<br/>0.00E+0<br/>1.90E-1<br/>Use of ro-<br/>primary e<br/>wable p<br/>primary e<br/>wable p<br/>primary e<br/>ty material<br/>HE LC/<br/>ing<br/>A1-A3<br/>3.79E-3<br/>8.56E-1<br/>3.21E-3</td><td>A - INDI<br/>2.27E-1<br/>0.00E+0<br/>2.27E-1<br/>4.07E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+4<br/>energy ress<br/>rimary ensal; RSF =<br/>A - WA<br/>A4<br/>2.05E-10<br/>6.05E-4<br/>4.93E-6</td><td>fossi           A5           2.49E+0           3.90E-1           2.10E+0           5.28E+0           -2.15E-1           5.06E+0           5.73E-2           0.00E+0           STEC           A5           1.14E+4           6.06E-2           1.00E-4</td><td>I resour           RS T(           B1           0.00E           as r           uding n           sed as r           newab           ATEC           B1           0.00E           0.00E           0.00E</td><td>cess; AD           DDES           I           +0         1.2           +0         0.00           +0         7.8           +0         7.8           +0         0.00           +0         7.8           +0         0.00           +0         5.90           +0         5.60           +0</td><td>PPF = .<br/>CCRI<br/>B2<br/>B2<br/>B2<br/>B2<br/>B2<br/>B2<br/>B2<br/>B2<br/>B2<br/>B2</td><td>Abiotic c<br/>BE R<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>2.27E-<br/>0.00E+<br/>2.27E-<br/>0.00E+<br/>1.26E-<br/>2.27E-<br/>0.00E+<br/>1.26E-<br/>2.27E-<br/>0.00E+<br/>1.26E-<br/>2.27E-<br/>0.00E+<br/>1.26E-<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.26E-<br/>0.00E+<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.26E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1.45E-<br/>1</td><td>Image: Control of the second state in the s</td><td>cc:         c:           1         7.99           -0         0.00           +1         3.88           +1         3.47           +0         4.79           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +1         1.08           1         use of nc           se of nc         se           FLOV        </td><td>for fossi         for fossi           SE ac         3           9E-1         5           10         9E-1           9E-1         0           9E-2         4           ressourc         non-renew           VS ac         9           9/3         9           7E-8         9           8-4         6</td><td>Iresour           cord           cord      cord      cord      c</td><td>ces           ing 1           -7.88           0.001           -7.88           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -7.702           d as r           ap prim           second           D           -7.795           -1.65           -2.54</td><td>Abiotic<br/>to EN<br/>E-2 0<br/>E+0 0<br/>E-2 0<br/>E-1 0<br/>E-1 0<br/>E+0 0</td><td>1580           D/1           .00E+0           .00E+0</td><td>4+A1:<br/>D/2<br/>-1.61E+0<br/>0.00E+0<br/>-7.39E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>1.58E-3<br/>PERME L<br/>I = Use of<br/>0.00E+0<br/>-1.58E-3<br/>-1.65E-9<br/>-3.41E-3<br/>-5.19E-4</td><td>D/3<br/>-5.08E-1<br/>0.00E+0<br/>-5.08E-1<br/>-3.26E+1<br/>0.00E+0<br/>-3.26E+1<br/>4.80E-1<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>3.08E-3<br/>Jse of<br/>= Use of<br/>f non-<br/>SM = Use<br/>net fresh<br/>D/3<br/>-2.45E-9<br/>-2.38E-1<br/>-1.31E-4</td></t<> | ring<br>Unit<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ   | HE LC/<br>A1-A3<br>6.87E+1<br>3.90E-1<br>6.91E+1<br>1.26E+2<br>3.43E+1<br>1.61E+2<br>1.91E+0<br>0.00E+0<br>1.90E-1<br>Use of ro-<br>primary e<br>wable p<br>primary e<br>wable p<br>primary e<br>ty material<br>HE LC/<br>ing<br>A1-A3<br>3.79E-3<br>8.56E-1<br>3.21E-3   
  | A - INDI<br>2.27E-1<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+4<br>energy ress<br>rimary ensal; RSF =<br>A - WA<br>A4<br>2.05E-10<br>6.05E-4<br>4.93E-6  | fossi           A5           2.49E+0           3.90E-1           2.10E+0           5.28E+0           -2.15E-1           5.06E+0           5.73E-2           0.00E+0           STEC           A5           1.14E+4           6.06E-2           1.00E-4  | I resour           RS T(           B1           0.00E           as r           uding n           sed as r           newab           ATEC           B1           0.00E           0.00E           0.00E   | cess; AD           DDES           I           +0         1.2           +0         0.00           +0         7.8           +0         7.8           +0         0.00           +0         7.8           +0         0.00           +0         5.90           +0         5.60           +0  
  | PPF = .<br>CCRI<br>B2<br>B2<br>B2<br>B2<br>B2<br>B2<br>B2<br>B2<br>B2<br>B2  
   | Abiotic c<br>BE R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.26E-<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.26E-<br>0.00E+<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.26E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1 | Image: Control of the second state in the s  
   | cc:         c:           1         7.99           -0         0.00           +1         3.88           +1         3.47           +0         4.79           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +1         1.08           1         use of nc           se of nc         se           FLOV   | for fossi         for fossi           SE ac         3           9E-1         5           10         9E-1           9E-1         0           9E-2         4           ressourc         non-renew           VS ac         9           9/3         9           7E-8         9           8-4         6   
   | Iresour           cord           cord      cord      cord      c   | ces           ing 1           -7.88           0.001           -7.88           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -7.702           d as r           ap prim           second           D           -7.795           -1.65           -2.54  | Abiotic<br>to EN<br>E-2 0<br>E+0 0<br>E-2 0<br>E-1 0<br>E-1 0<br>E+0 0   | 1580           D/1           .00E+0  
  | 4+A1:<br>D/2<br>-1.61E+0<br>0.00E+0<br>-7.39E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.58E-3<br>PERME L<br>I = Use of<br>0.00E+0<br>-1.58E-3<br>-1.65E-9<br>-3.41E-3<br>-5.19E-4   | D/3<br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>4.80E-1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>3.08E-3<br>Jse of<br>= Use of<br>f non-<br>SM = Use<br>net fresh<br>D/3<br>-2.45E-9<br>-2.38E-1<br>-1.31E-4   |
| floord<br>Parama<br>PER<br>PER<br>PENF<br>PENF<br>SM<br>RSF<br>NRS<br>FW<br>Captio   | COVE<br>eter<br>E<br>M<br>T<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R  
   | ring<br>Unit<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ   | A1-A3<br>6.87E+1<br>3.90E-1<br>6.91E+1<br>1.26E+2<br>3.43E+1<br>1.61E+2<br>1.91E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.90E-1<br>Use of ro<br>primary energies<br>HE LC/<br>ing<br>A1-A3<br>3.79E-3<br>8.56E-1<br>3.21E-3<br>0.00E+0<br>1.99E-2   | A - INDI<br>2.27E-1<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1, RSF =<br>A - WA<br>A<br>2.05E-10<br>6.05E-4<br>4.93E-6<br>0.00E+0<br>0.00E+0<br>0.00E+0   | fossi           CATOI           2.49E+0           -3.90E-1           2.10E+0           5.28E+0           -2.15E-1           5.06E+0           5.73E-2           0.00E+0           STE C/           A5           1.14E4           0.00E+0           0.00E+0           0.00E+0           1.30E-1  
  | I resour           RS T(           B1           0.00E   | cees; AD           DDES           I           +0         1.2;           +0         0.00           +0         7.8;           +0         7.8;           +0         0.00           +0         7.8;           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         5.0           FORIE         I           +0         5.90           +0         5.6;           +0         5.3;           +0         0.00           +0         5.0;           +0         5.0;           +0         5.0;           +0         5.0;           +0         5.0;           +0         5.6;           +0         5.6;           +0         5.6;           +0         5.6;           +0         5.6;           +0         5.6;           +0         5.6;           +0         5.6;           +0         5.6;           +0  
   | PPF = .<br>CRI<br>82<br>82<br>4E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E | Abiotic c<br>BE
R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>2.27E-<br>2.27E-<br>0.00E+<br>2.27E-<br>2.27E-<br>0.00E+<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2.27E-<br>2 | Image: Control of the second state in the s   
  | cc:         c:           1         7.99           -0.000         -1           -1         7.99           +0         0.000           +1         3.88           +1         -3.47           +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           +1         -1.01           +1         -1.16           +0         1.16           +1         -1.02           +0         0.000  | for fossi           SE ac           33           9E-1           38E-1           58E           96E-1           38E+1           58E           96E-1           97E-1           97E-1           97E-1           97E-1           97E-1           97E-1           97E-1           97E-2           4           resourc           non-rere           non-rere           NO-rere           NO-rere <td< td=""><td>I resour           I resource           I resource</td><td>ces           ing 1           -7.88           0.001           -7.88           0.001           -7.88           0.001           -7.88           0.001           -7.705           -7.950           -1.65           -2.54           0.001           0.001</td><td>Abiotic<br/><b>b</b>E-2 0.<br/><b>b</b>E-2 0.<br/><b>b</b>E-2 0.<br/><b>b</b>E-1 0.<br/><b>b</b>E-1 0.<br/><b>b</b>E-1 0.<br/><b>b</b>E-1 0.<br/><b>b</b>E-1 0.<br/><b>b</b>E-1 0.<br/><b>b</b>E-1 0.<br/><b>b</b>E-5 0.<br/><b>b</b>E-1 0.<br/><b>b</b>E-5 0.<br/><b>b</b>E-1 0.<br/><b>b</b></td><td>1580           D/1           .00E+0           .00E+0</td><td>4+A1: 7<br/>D/2<br/>-1.61E+0<br/>0.00E+0<br/>-1.61E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+3<br/>7.39E+0<br/>0.00E+0<br/>1.58E-3<br/>2ERM = L<br/>; PENRE<br/>I = Use of<br/>0.00Ce+0<br/>4+A1:<br/>D/2<br/>-1.65E-9<br/>-3.41E-3</td><td>D/3<br/>-5.08E-1<br/>0.00E+0<br/>-5.08E-1<br/>-3.26E+1<br/>0.00E+0<br/>-3.26E+1<br/>4.80E-1<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>3.08E-3<br/>Jse of<br/>= Use of<br/>f non-<br/>SM = Use<br/>net fresh<br/>D/3<br/>-2.45E-9<br/>-2.38E-1<br/>-1.31E-4</td></td<> | I resour           I resource           I resource | ces           ing 1           -7.88           0.001           -7.88           0.001           -7.88           0.001           -7.88           0.001           -7.705           -7.950           -1.65           -2.54           0.001           0.001   
  | Abiotic<br><b>b</b> E-2 0.<br><b>b</b> E-2 0.<br><b>b</b> E-2 0.<br><b>b</b> E-1 0.<br><b>b</b> E-5 0.<br><b>b</b> E-1 0.<br><b>b</b> E-5 0.<br><b>b</b> E-1 0.<br><b>b</b>   | 1580           D/1           .00E+0   | 4+A1: 7<br>D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+3<br>7.39E+0<br>0.00E+0<br>1.58E-3<br>2ERM = L<br>; PENRE<br>I = Use of<br>0.00Ce+0<br>4+A1:<br>D/2<br>-1.65E-9<br>-3.41E-3  | D/3<br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>4.80E-1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>3.08E-3<br>Jse of<br>= Use of<br>f non-<br>SM = Use<br>net fresh<br>D/3<br>-2.45E-9<br>-2.38E-1<br>-1.31E-4   |
| floord<br>Paramo<br>PER<br>PENF<br>PENF<br>PENF<br>SM<br>SM<br>SM<br>SM<br>Captio<br>RESU<br>1 m <sup>2</sup> 1<br>Paramo<br>HWI<br>NHW<br>RESU<br>1 m <sup>2</sup> 1  | COVE<br>eter<br>E<br>M<br>T<br>R<br>R<br>R<br>R<br>R<br>R<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r  
   | ring<br>Unit<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ   | A1-A3<br>6.87E+1<br>3.90E-1<br>6.91E+1<br>1.26E+2<br>3.43E+1<br>1.61E+2<br>1.91E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.90E-1<br>Use of re-<br>brimary en-<br>ewable p<br>primary en-<br>ewable p<br>p | A - INDI<br>2.27E-1<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.60E-4<br>enewable<br>nergy resa<br>rimary en-<br>nergy resa<br>rimary en-<br>nergy resa<br>rimary en-<br>nergy resa<br>A - WA<br>A<br>2.05E-10<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0 | fossi           A5           2.49E+0           -3.90E-1           2.10E+0           5.28E+0           -2.15E-1           5.06E+0           5.73E-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           STE C/           A5           1.14E4           0.00E+0           0.00E+0           1.30E-1           0.00E+0  | I resour           RS TO           0.00E  | cees; AD           I      
    I           I<   
  | PPF = .<br>CRI<br>82<br>4E+0<br>0E+0<br>4E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>3E-3<br>mg rer<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>swablo<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>terials<br>t   | Abiotic c<br>BE R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1 | Image         Image           ESOUI         ESOUI           2         5.41E           0         0.00E           2         5.41E           0         2.54T           1         3.78E           0         -3.41E           1         3.73E           0         0.00E           0         0.00E           0         0.00E           5         1.98E           Primary       
 Total tr          y energy         RSF = U           Atter         UTPUT           UTPUT         C3/2           11         1.25E           5         1.16E           7         1.30E           0         0.00E           0         0.00E  | Dotential           CE         C           1         7.99           -1         7.99           -1        
7.99           -1         7.99           -1         7.99           -1         3.88           +1         3.41           +0         4.79           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +1         -2.2.00           energy         ise of regimeration of resource           I use of resource         FLOV           **         C:           **         C:           **         C:           **         1.16           4         2.03           **         0.000           **         0.000  | for fossi           SE ac           3/3           E-1           3/2           E+0           0.9           E+1           5           E+1           0.0           E+1           E+1           0.0           E+0           E+0           0.0           E+2           4           resourc           newabl           css use           non-renew           VS ac           3/3           E=8           9/3           E=8           9/3           E=4           6           E+0           0           E+0           0           E+0           0           E+0           0           E+0           0           E+0   
   | Iresour           C4/1           79E-1           23E+0           00E+0           23E+1           23E+0           00E+0           23E+1           23E+1<   | ces           ing 1           -7.88           0.001           -7.88           0.001           -7.88           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -3.55           0.001           -7.70           d as ray en wy mata           e prime           ing t           -7.951           -1.654           0.000           0.001           0.001  | Abiotic<br><b>b</b> E-2 0<br><b>b</b> E-2 0<br><b>b</b> E-2 0<br><b>b</b> E-1 0<br><b>b</b> E-5 0<br><b>b</b> E-1 0<br><b>b</b> E-1 0<br><b>b</b> E-5 0<br><b>b</b> E-1  | 1580           D/1           .00E+0   | 4+A1:
7<br>D/2<br>-1.61E+0<br>0.00E+0<br>-7.39E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1+A1:<br>D/2<br>-1.65E-9<br>-3.41E-3<br>-5.19E-4<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0 | D/3           -5.08E-1           0.00E+0           -5.08E-1           -3.26E+1           0.00E+0           -3.26E+1           4.80E-1           0.00E+0           -3.08E-3           Jse of           = Use of           fnon-           SM = Use of           fnon-           SM = Use           net fresh           -2.45E-9           -2.45E-9           -1.31E-4           0.00E+0           0.00E+0           0.00E+0 |
| floord<br>Parama<br>PER<br>PENF<br>PENF<br>PENF<br>SM<br>RSF<br>NRSS<br>FW<br>Captio   | Cove<br>eter<br>E<br>M<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T  
   | ring<br>Unit<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ<br>MJ   | A1-A3<br>6.87E+1<br>3.90E-1<br>6.91E+1<br>1.26E+2<br>3.43E+1<br>1.61E+2<br>1.91E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.90E-1<br>Use of ro<br>primary energies<br>HE LC/<br>ing<br>A1-A3<br>3.79E-3<br>8.56E-1<br>3.21E-3<br>0.00E+0<br>1.99E-2   | A - INDI<br>2.27E-1<br>0.00E+0<br>2.27E-1<br>4.07E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.60E-4<br>A - WA<br>A4<br>2.05E-10<br>6.05E-4<br>4.93E-6<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0  | fossi           A5           2.49E+0           -3.90E-1           2.10E+0           5.28E+0           -2.15E-1           5.06E+0           5.73E-2           0.00E+0           0.00E+0           6.32E-3           primary e           ources us           use of re           STE C/           A5           1.14E-4           6.06E-2           1.00E+10           1.30E-1           0.00E+0           2.96E-1   
  | I resour           RS T(           B1           0.00E   | ces; AD           DDES           I           +0         1.2;           +0         0.00;           +0         7.8;           +0         7.8;           +0         0.00;           +0         7.8;           +0         0.00;           +0         0.00;           +0         0.01;           +0         0.01;           +0         0.01;           +0         5.90;           +0         5.90;           +0         5.6;           +0         5.00;           +0         0.00;           +0         0.00;           +0         0.00;           +0         0.00;           +0         0.00;           +0         0.00;           +0         0.00;           +0         0.00;   
   | PPF = .<br>CCRI<br>B2<br>4E+00<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0<br>0E+0   | Abiotic c<br>BE
R<br>1.26E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>2.27E-<br>0.00E+<br>1.26E-<br>2.27E-<br>0.00E+<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1.45E-<br>1 | Image: Control of the second state in the s   
  | Dotential           CE         U           1         7.99           +0         0.00           -1         7.99           +0         1           +1         3.88           +1         3.41           +0         4.79           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +1         1.16           4         2.03           +8         1.27           +0         1.16           4         2.03           +0         0.00           +0         0.00           +0         0.00           +0         0.00   | for fossi           SE ac           SE  
  | Iresour           C4/1           79E-1           00E+00           00E+01           00E+02           00E+03           00E+04           00E+01           00E+02           00E+01           00E+01           00E+01           00E+01   | rces<br>ing 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#### DEGODIDITION OF THE OVOTEM DOUNDARY (V - INOLUDER IN LOA

Environmental Product Declaration modulyss - Tufted carpet tiles, max. total pile weight 1300 g/m<sup>2</sup> PA 6, 100% regenerated

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

Caption

thermal energy

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# **Environmental Product Declaration**

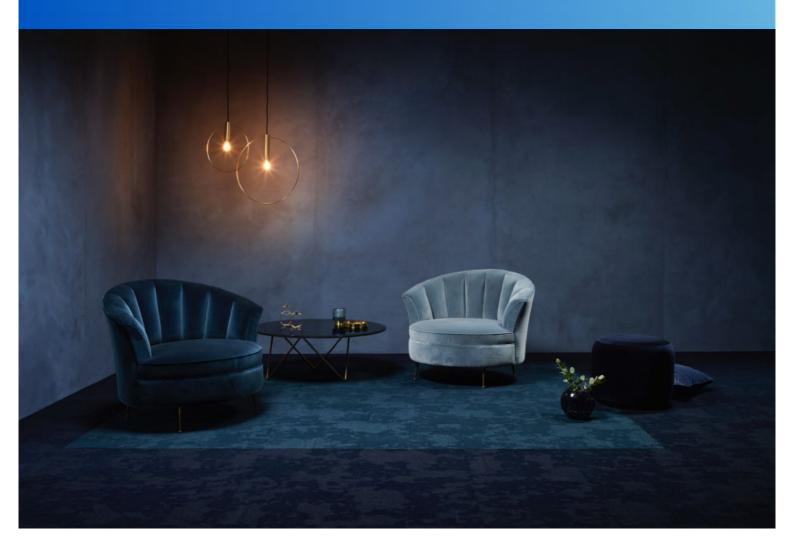
# modulyss

# Velvet& "ComfortBackEco"

surface pile weight: 570 g/m<sup>2</sup> pile material: polyamide 6 with 100% recycled content backing: ComfortBackEco

These EPD data are <u>only valid</u> in combination with the environmental product declaration EPD-MOD-20210149-CBC1-EN published by Institut Bauen und Umwelt e.V. (IBU) and a GUT/Prodis license

This data set gives product specific LCA results based on the calculation procedure described in the above mentioned EPD.







# **Calculation method for similar Products of the EPD document**

The EPD document is valid for all products with a surface pile weight lower or equal to the declared maximum pile weight of 1300 g/m<sup>2</sup>.

The respective declaration number is EPD-MOD-20210149-CBC1-EN.

This document indicates more specific LCA results for (a) product(s) with identical material compositions and production parameters. The product(s) belong(s) to the same family of products and only differ in its/their pile weight(s).

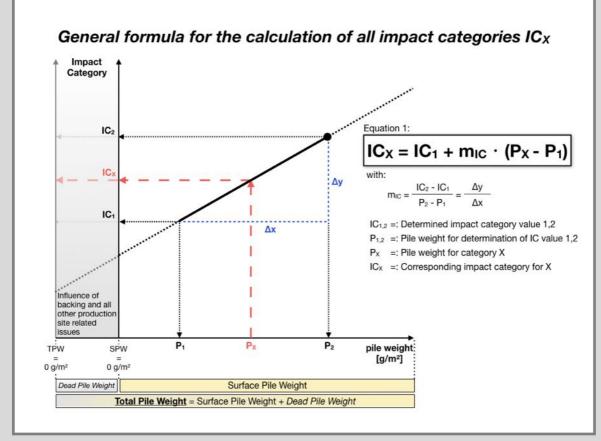
LCA results show a linear correlation with the total pile weight, for all impact categories (IC) and all modules (A-D). It is possible to calculate specific LCA results (IC<sub>x</sub>) for every carpet (x) within the declared group of products in relation to its total pile weight ( $P_x$ ).

The total pile weight (TPW) is the sum of surface pile weight (SPW) and dead pile weight (DPW):

TPW = SPW + DPW



The surface pile weight is the technical relevant value according to EN 1307 and has to be mentioned in technical specification. As shown in the figure below alternatively to the total pile weight the surface pile weight can be used to calculate LCA results (ICx).



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



# 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

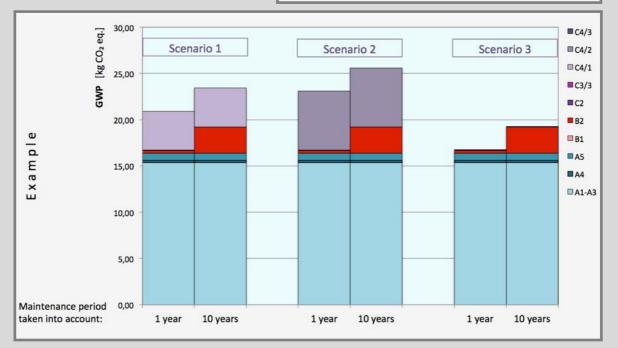
Total environmental impacts have to be calculated by taking into account the service life of textile floor coverings. Therefore, the assumed real life (ARSL) has to be used for the calculation of total environmental impacts taking into account the expected use conditions (see RSL). Module B2 (maintenance)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

# **Product description**

Name	Value	Unit
Type of manufacture	tufted tiles	-
Yarn type	polyamide 6 with 100% recycled content	-
Total pile weight	900	g/m <sup>2</sup>
Surface pile weight	570	g/m²
Dead pile weight	330	g/m <sup>2</sup>
Secondary backing	ComfortBackEco	-
Product Form	tiles 50 cm x 50 cm	-
Max. total carpet weight	4600	g/m <sup>2</sup>

#### Base materials / Ancillary materials

Name	Value for category	Unit
Polyamide 6	19,6	%
Polyester	11,7	%
Polypropylene	0,7	%
Limestone	35,7	%
Aluminiumhydroxide	11,0	%
SBR-Latex	10,7	%
Polyolefin	9,6	%
Glass fibre	0,2	%
Additives	0,9	%
Recycled content out of total weight	59 %	%

# LCA: Declared Unit

Name	Value for category	Unit
Declared unit	1,0	m <sup>2</sup>
Conversion factor to 1 kg	4,6	kg/m <sup>2</sup>

# 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)	0,0108	l/100km
Transport distance	700	km
Capacity utilisation (including empty runs)	55	%

#### Installation in the building (A5)

Name	Value for category					
Material lost	0,14	kg				

#### Maintenance (B2)

Indication per m<sup>2</sup> 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	m <sup>3</sup>
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)	4,60	kg/m <sup>2</sup>
Collected separately (scenario 3)	4,60	kg/m <sup>2</sup>
Landfilling (scenario 1)	4,60	kg/m <sup>2</sup>
Energy recovery (scenario 2)	4,60	kg/m <sup>2</sup>
Energy recovery (scenario 3)	2,44	kg/m <sup>2</sup>
Recycling (scenario 3)	2,16	kg/m <sup>2</sup>



# LCA: Results for Velvet& "ComfortBackEco"

(calculated with a total pile weight of 900 g/m<sup>2</sup>)

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
<ul> <li>× IV raw material supply</li> <li>× R transport</li> <li>× E manufacturing</li> </ul>	X X delivery X 5 installation	X       IB       use         X       78       maintenance         M       88       repair         M       78       replacement         M       99       energy use         M       88       renewal	<ul> <li>3 C stop of use / demolition</li> <li>× R transport</li> <li>× E waste management</li> <li>× P disposal</li> </ul>	➤ □ reuse, recovery and recycling potential

# Results for the LCA - Environmental impact: 1 m<sup>2</sup> 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]	6,93E+00	2,75E-01	6,15E-01	0,00E+00	2,91E-01	1,53E-02	5,83E+00	5,89E+00	3,13E-01	-2,66E-02	0,00E+00	-6,34E-01	-3,58E-01
ODP	[kg CFC11-eq]	1,31E-08	4,81E-17	3,91E-10	0,00E+00	1,21E-08	2,67E-18	2,14E-15	2,96E-15	1,06E-15	-4,05E-16	0,00E+00	-9,58E-15	-2,17E-15
AP	[kg SO2-eq]	1,87E-02	1,14E-03	7,01E-04	0,00E+00	1,14E-03	6,31E-05	3,37E-03	3,58E-03	8,11E-04	-3,08E-05	0,00E+00	-7,28E-04	-1,28E-03
EP	[kg PO4)3-eq]	3,59E-03	2,90E-04	1,42E-04	0,00E+00	3,17E-04	1,61E-05	8,22E-04	8,68E-04	8,80E-04	-4,23E-06	0,00E+00	-1,00E-04	-1,69E-04
POCP	[kg ethen-eq]	1,03E-03	-4,87E-04	2,15E-05	6,29E-05	1,47E-04	-2,71E-05	2,09E-04	1,44E-04	7,30E-05	-2,83E-06	0,00E+00	-6,71E-05	-1,20E-04
ADPE	[kg Sb-eq]	6,25E-06	2,44E-08	1,95E-07	0,00E+00	4,43E-06	1,36E-09	1,95E-07	2,07E-07	6,00E-08	-4,98E-09	0,00E+00	-1,18E-07	-2,80E-07
ADPF	[MJ]	1,43E+02	3,75E+00	4,51E+00	0,00E+00	6,77E+00	2,08E-01	3,01E+00	3,81E+00	4,67E+00	-3,83E-01	0,00E+00	-9,14E+00	-3,23E+01

Caption 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



Resu	Results for the LCA - Resource use: 1 m <sup>2</sup> 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]	5,23E+01	2,10E-01	1,99E+00	0,00E+00	1,24E+00	1,16E-02	5,05E-01	7,42E-01	3,49E-01	-1,04E-01	0,00E+00	-2,47E+00	-5,08E-01
PERM	[MJ]	3,90E-01	0,00E+00	-3,90E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	5,26E+01	2,10E-01	1,60E+00	0,00E+00	1,24E+00	1,16E-02	5,05E-01	7,42E-01	3,49E-01	-1,04E-01	0,00E+00	-2,47E+00	-5,08E-01
PENRE	[MJ]	1,17E+02	3,76E+00	4,98E+00	0,00E+00	7,86E+00	2,09E-01	3,74E+01	3,83E+01	4,81E+00	-4,67E-01	0,00E+00	-1,11E+01	-3,26E+01
PENRM	[MJ]	3,43E+01	0,00E+00	-2,15E-01	0,00E+00	0,00E+00	0,00E+00	-3,41E+01	-3,41E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	1,52E+02	3,76E+00	4,77E+00	0,00E+00	7,86E+00	2,09E-01	3,31E+00	4,29E+00	4,81E+00	-4,67E-01	0,00E+00	-1,11E+01	-3,26E+01
SM	[kg]	1,49E+00	0,00E+00	4,47E-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	4,80E-01
RSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	[MJ]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m³]	1,40E-01	2,40E-04	4,79E-03	0,00E+00	4,13E-03	1,34E-05	1,85E-02	1,87E-02	4,44E-05	-1,02E-04	0,00E+00	-2,41E-03	-3,08E-03

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PERT = Total 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 used as raw materials; PENRM = 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; PENRM = Use of non-renewab

# Results for the LCA - Output flows and waste categories: 1 m<sup>2</sup> 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]	2,63E-03	1,89E-10	7,89E-05	0,00E+00	5,90E-10	1,05E-11	1,24E-08	1,26E-08	8,65E-10	-1,05E-10	0,00E+00	-2,49E-09	-2,45E-09
NHWD	[kg]	7,04E-01	5,58E-04	5,60E-02	0,00E+00	5,62E-03	3,10E-05	1,16E+00	1,16E+00	4,58E+00	-2,18E-04	0,00E+00	-5,17E-03	-2,38E-01
RWD	[kg]	3,15E-03	4,55E-06	9,80E-05	0,00E+00	3,32E-04	2,52E-07	1,22E-04	1,90E-04	5,59E-05	-3,36E-05	0,00E+00	-7,95E-04	-1,31E-04
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00									
MFR	[kg]	1,40E-02	0,00E+00	1,30E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,26E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00									
EEE	[MJ]	0,00E+00	0,00E+00	2,68E-01	0,00E+00	0,00E+00	0,00E+00	7,81E+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	4,94E-01	0,00E+00	0,00E+00	0,00E+00	1,45E+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 energy recovery; EEE = Exported electrical energy; EEE = Exported thermal energy