# **ENVIRONMENTAL PRODUCT DECLARATION**

as per ISO 14025 and EN 15804+A1

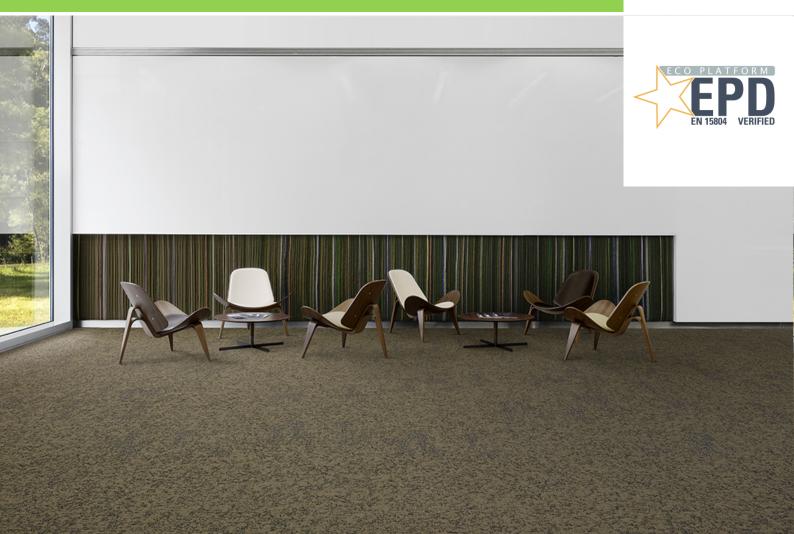
Owner of the Declaration	modulyss®
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-MOD-20220013-CBC1-EN
Issue date	04.02.2022
Valid to	03.02.2027

**Tufted carpet tiles** with a total pile weight of 600 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-20220013-CBC1-EN

# This declaration is based on the product category rules: Floor coverings, 02/2018

(PCR checked and approved by the  $\ensuremath{\mathsf{SVR}}\xspace)$ 

# **Issue date** 04.02.2022

Valid to 03.02.2027

am 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 56% with a total pile weight of 600 g/m<sup>2</sup> and a comfortBack<sup>eco</sup> backing and 52% with a total pile weight of 600 g/m<sup>2</sup> and an ecoBack backing.

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,

# Tufted carpet tiles

total pile weight 600 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 total pile weight of 600 g/m<sup>2</sup>. The products are produced in Zele, Belgium 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)

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
Name	Value	Unit



	Tufted tiles, solution	
Type of manufacture	dyed yarn or aqueous	-
	dyeing methods	
Product Form	Tiles 50 cm x 50 cm	-
	ecoBack or	
Secondary backing	comfortBackeco	-
Yarn type	100% regenerated	
fan type	polyamide 6	-
Total pile weight	600	g/m²
Total carpet weight	4300	g/m <sup>2</sup>

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).

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

Name	Value	Unit
Polyamide 6	13,9	%
Polyester	12,5	%
Polypropylene	0.7	%
Limestone	38,2	%
Aluminiumhydroxide	11,7	%

## LCA: Calculation rules

### **Declared Unit**

Name	Value	Unit
Declared unit	1	m²
Conversion factor to 1 kg	4.3	kg/m <sup>2</sup>

The declared unit refers to 1  $m^2$  produced textile floor covering. Output of module A5 'Assembly' is 1  $m^2$  installed textile floor covering.

### System boundary

### Type of EPD: Cradle-to-grave

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

### A1-A3 Production:

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

### A4 Transport:

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

### A5 Installation:

SBR-latex	11,4	%
Polyolefin	10,3	%
Glass fibre	0,3	%
Additives	0,9	%

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.

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.

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

# 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)	0.0101	l/100km
Transport distance	700	km
Capacity utilisation (including empty runs)	55	%

### Installation in the building (A5)

Name		Value	Unit
Material loss		0.13	kg
<u> </u>			

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.

### 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

D Recycling potential:

D-A5: Benefits for generated energy due to incineration of packaging and installation waste (incineration plant with R1 > 0.6), D-1: Benefits for generated energy due to landfill disposal of carpet waste at the end-of-life,

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

D-3: Benefits for saved fossil energy and saved inorganic material due to recovery of the carpet in a cement plant.

### Comparability

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

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

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)	4.3	kg
Collected separately (scenario 3)	4.3	kg
Landfilling (scenario 1)	4.3	kg
Energy recovery (scenario 2)	4.3	kg
Energy recovery (scenario 3)	2.144	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%).

(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 total pile weight of 600 g/m<sup>2</sup>. 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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| Raw material<br>supply   | Transport   | Manufacturing  | Transport from the gate to the site  | Assembly   | Use  | Maintenance   
  | Repair   | Replacement  | Refurbishment  | Operational energy  
   | Operational water   
   | De-construction  | Transport  
  | Waste processing   | Disposal   | Reuse-<br>Recoverv-  
   | Recycling-<br>potential  |
| A1   | A2  | A3   | A4   | A5   | B1   | B2  
  | B3   | В4   | B  | 5 Вб  
   | 6 B7  
   | C1   | C2   
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   | C3/3   | C4/1   
  | D  | D/1  | D/2  
   | D/3  |
|  | WP  |  | CO <sub>2</sub> -Eq.]  | 6.35E+0  |  |   
  | -1 0.00E   |  |  |   
   | 4.65E+0   
   |  |  
  |  | 2 0.00E+0  |  
   |  |
|  | DP<br>\P  | 1.5 -  | FC11-Eq.]<br>SO <sub>2</sub> -Eq.]   | 9.54E-9<br>1.58E-2   | 0.00E+0<br>1.06E-3   |   
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| E  | ΞP  |  | <u>202-сq.ј</u><br>Ю <sub>4</sub> ) <sup>3</sup> -Еq.]   | 2.95E-3  | 2.71E-4  | 1.16E-  
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   | 6.45E-4  | 8.22E-4  
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   | 5 -1.69E-4   |
|  | DCP<br>DPE  |  | hene-Eq.]  |  | -4.56E-4   |   
  |  |  |  |   
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   |  |  
  |  | 6 0.00E+0<br>9 0.00E+0   |  
   |  |
|  | DPE<br>DPF  |  | Sb-Eq.]<br>[MJ]  | 1.37E+2  | 2.28E-8<br>2 3.51E+0   | 4.31E+  
  | +0 0.00E   | <u>+0 4</u><br>+0 6.   | .43⊑-0<br>.77E+0   | 1.27E-9<br>1.95E-1  
   | 1.00E-7<br>2.63E+0  
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  | ) -2.91E-  | 1 0.00E+0  | ) -6.08E+0   
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| flooro<br>Paramo   | eter  | Unit   | A1-A3  | A4   | A5   | B1  
  | E  | 32   | C2   | C3/2  
   | C3  
   | 3 C  | 4/1  
  | D  | D/1  | D/2  
   | D/3  |
| flooro<br>Paramo<br>PER  | eter<br>E   | Unit<br>[MJ] 4   | 4.05E+1  | <b>A4</b><br>1.96E-1   | <b>A5</b><br>1.64E+0   | <b>B1</b>   
  | <b>E</b><br>+0 1.24  | <b>32</b><br>4E+0  | <b>C2</b><br>1.09E-2   | <b>C3/2</b><br>2 4.59E  
   | -1 6.81   
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  | <b>D</b><br>7.88E-2  | <b>D/1</b><br>0.00E+0  | <b>D/2</b><br>-1.61E+0   
   | <b>D/3</b><br>-5.08E-1   |
| flooro<br>Paramo   | eter<br>E<br>M  | Unit<br>[MJ] 4<br>[MJ] 3   |  | A4   | A5   | B1  
  | +0 1.24<br>+0 0.00   | 32   | C2   | <b>C3/2</b><br>2 4.59E<br>0 0.00E   
   | -1 6.811<br>+0 0.00E<br>-1 6.811  
   | <b>3 C</b><br>=-1 3.2<br>=+0 0.00<br>=-1 3.2   | <b>4/1</b><br>7E-1 -7<br>0E+0 0.   
  | <b>D</b><br>7.88E-2<br>.00E+0  | <b>D/1</b><br>0.00E+0<br>0.00E+0   | D/2  
   | <b>D/3</b><br>-5.08E-1<br>0.00E+0  |
| floor<br>Parame<br>PER<br>PER<br>PER<br>PEN  | eter<br>E<br>M<br>T<br>RE   | Unit         4           [MJ]         4           [MJ]         3           [MJ]         4           [MJ]         4           [MJ]         4  | 4.05E+1<br>3.90E-1<br>4.09E+1<br>1.11E+2   | A4<br>1.96E-1<br>0.00E+0<br>1.96E-1<br>3.52E+0   | A5<br>1.64E+0<br>-3.90E-1<br>1.25E+0<br>4.77E+0  | <b>B1</b><br>0.00E<br>0.00E<br>0.00E<br>0.00E   
  | +0 1.24<br>+0 0.00<br>+0 1.24<br>+0 7.86   | <b>32</b><br>4E+0<br>0E+0<br>4E+0<br>6E+0  | C2<br>1.09E-2<br>0.00E+(<br>1.09E-2<br>1.95E-1   | C3/2<br>2 4.59E<br>0 0.00E<br>2 4.59E<br>3.69E  
   | -1 6.811<br>-0 0.00E<br>-1 6.811<br>+1 3.78E  
   | <b>3 C</b><br>=-1 3.2<br>=+0 0.00<br>=-1 3.2<br>=+1 4.50   | <b>4/1</b><br>7E-1 -7<br>0E+0 0.<br>7E-1 -7<br>0E+0 -3   
  | D<br>7.88E-2<br>.00E+0<br>7.88E-2<br>3.55E-1   | D/1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0  | D/2<br>-1.61E+0<br>0.00E+0<br>-1.61E+0<br>-7.39E+0   
   | <b>D/3</b><br>-5.08E-1<br>0.00E+0<br>-5.08E-1<br>-3.26E+1  |
| flooro<br>Paramo<br>PER<br>PER<br>PER  | eter<br>E<br>M<br>T<br>RE   | Unit         4           [MJ]         4           [MJ]         3           [MJ]         4           [MJ]         4           [MJ]         3           [MJ]         3   | 4.05E+1<br>3.90E-1<br>4.09E+1<br>1.11E+2   | A4<br>1.96E-1<br>0.00E+0<br>1.96E-1  | A5<br>1.64E+0<br>-3.90E-1<br>1.25E+0<br>4.77E+0<br>-2.15E-1  | <b>B1</b><br>0.00E<br>0.00E<br>0.00E  
  | +0 1.24<br>+0 0.00<br>+0 1.24<br>+0 7.86<br>+0 0.00  | <b>32</b><br>4E+0<br>0E+0<br>4E+0  | C2<br>1.09E-2<br>0.00E+0<br>1.09E-2  | C3/2<br>2 4.59E<br>0 0.00E<br>2 4.59E<br>1 3.69E<br>0 -3.41E  
   | C3<br>-1 6.811<br>-0 0.00E<br>-1 6.811<br>+1 3.78E<br>+1 -3.411   
   | 3         C           E-1         3.2           E+0         0.00           E-1         3.2           E+1         4.50           E+1         0.00   | <b>4/1</b><br>7E-1 -7<br>DE+0 0.<br>7E-1 -7<br>DE+0 -3<br>DE+0 0.  
  | D<br>7.88E-2<br>.00E+0<br>7.88E-2<br>3.55E-1<br>.00E+0   | D/1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0   | <b>D/2</b><br>-1.61E+0<br>0.00E+0<br>-1.61E+0  
   | D/3<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  | Unit         2           [MJ]         4           [MJ]         4           [MJ]         4           [MJ]         1           [MJ]         3           [MJ]         1           [MJ]         1           [MJ]         1           [MJ]         1           [MJ]         1   | 4.05E+1<br>3.90E-1<br>4.09E+1<br>1.11E+2<br>3.43E+1<br>1.45E+2<br>1.18E+0  | A4<br>1.96E-1<br>0.00E+0<br>1.96E-1<br>3.52E+0<br>0.00E+0<br>3.52E+0<br>0.00E+0  | A5<br>1.64E+0<br>-3.90E-1<br>1.25E+0<br>4.77E+0<br>-2.15E-1<br>4.55E+0<br>3.55E-2  | B1 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E  
  | +0 1.24<br>+0 0.00<br>+0 1.24<br>+0 7.86<br>+0 0.00<br>+0 7.86<br>+0 0.00  | 32       4E+0       DE+0       4E+0       DE+0       DE+0       DE+0       DE+0       DE+0   | C2<br>1.09E-2<br>0.00E+(<br>1.09E-2<br>1.95E-1<br>0.00E+(<br>1.95E-1<br>0.00E+(  | C3/2           2         4.59E           0         0.00E           2         4.59E           1         3.69E           0         -3.41E           1         2.91E           0         0.00E   
   | C3           -1         6.811           +0         0.00E           -1         6.811           +1         3.78E           +1         -3.411           +0         3.82E           +0         0.00E  
   | 3         C           E-1         3.2           E+0         0.00           E-1         3.2           E+1         4.50           E+1         0.00           E+1         4.50           E+0         4.50   | <b>4/1</b><br>7E-1 -7<br>0E+0 0.<br>7E-1 -7<br>0E+0 -3<br>0E+0 0.<br>0E+0 -3<br>0E+0 0.  
  | D<br>7.88E-2<br>0.00E+0<br>7.88E-2<br>8.55E-1<br>0.00E+0<br>3.55E-1<br>0.00E+0   | D/1<br>0.00E+0<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/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>Parama<br>PER<br>PER<br>PER<br>PEN<br>PEN<br>SM<br>SM  | eter  | Unit         4           [MJ]         4           [MJ]         5           [MJ]         4           [MJ]         4           [MJ]         1           [MJ]         1           [MJ]         3           [MJ]         1           [MJ]         1           [MJ]         1           [MJ]         1           [MJ]         1   | 4.05E+1<br>3.90E-1<br>4.09E+1<br>1.11E+2<br>3.43E+1<br>1.45E+2<br>1.18E+0<br>0.00E+0   | A4<br>1.96E-1<br>0.00E+0<br>1.96E-1<br>3.52E+0<br>0.00E+0<br>3.52E+0<br>0.00E+0<br>0.00E+0   | A5<br>1.64E+0<br>-3.90E-1<br>1.25E+0<br>4.77E+0<br>-2.15E-1<br>4.55E+0<br>3.55E-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  
  | +0 1.24<br>+0 0.00<br>+0 1.24<br>+0 7.86<br>+0 0.00<br>+0 7.86<br>+0 0.00<br>+0 0.00   | <b>32</b><br>4E+0<br>DE+0<br>4E+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0  | C2<br>1.09E-2<br>0.00E+(<br>1.09E-2<br>1.95E-1<br>0.00E+(<br>1.95E-1<br>0.00E+(<br>0.00E+(<br>0.00E+(  | C3/2           4.59E           0.00E           2           4.59E           3.69E           0           -3.41E           2.91E           0           0.00E           0   
   | C3/           -1         6.811           +0         0.00E           -1         6.811           +1         3.78E           +1         -3.411           +0         3.82E           +0         0.00E           +0         0.00E  
   | 3         C           =-1         3.2           =+0         0.00           =-1         3.2           =+1         4.50           =+1         0.00           =+0         4.50           =+0         0.00           =+0         0.00  | 4/1         7           7E-1         -7           0E+0         0.           7E-1         -7           0E+0         -3           0E+0         -3           0E+0         0.           0E+0         0.           0E+0         0.           0E+0         0.           0E+0         0.           0E+0         0.  
  | D<br>7.88E-2<br>0.00E+0<br>7.88E-2<br>3.55E-1<br>0.00E+0<br>0.00E+0<br>0.00E+0   | D/1<br>0.00E+0<br>0.00E+0<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/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  
   | 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  |
| Floor<br>Parame<br>PER<br>PER<br>PENF<br>PENF<br>PENF<br>SM  | eter  | Unit<br>[MJ] 4<br>[MJ] 3<br>[MJ] 4<br>[MJ] 1<br>[MJ] 3<br>[MJ] 1<br>[MJ] 1<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0   | 4.05E+1<br>3.90E-1<br>4.09E+1<br>1.11E+2<br>3.43E+1<br>1.45E+2<br>1.18E+0<br>0.00E+0<br>0.00E+0<br>1.04E-1   | A4<br>1.96E-1<br>0.00E+0<br>1.96E-1<br>3.52E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.24E-4   | A5<br>1.64E+0<br>-3.90E-1<br>1.25E+0<br>4.77E+0<br>-2.15E-1<br>4.55E+0<br>3.55E+2<br>0.00E+0<br>0.00E+0<br>3.63E-3   | 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  
  | E           +0         1.24           +0         0.00           +0         1.24           +0         7.86           +0         7.86           +0         7.86           +0         0.00           +0         7.86           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00  | 32       4E+0       DE+0       4E+0       DE+0   | C2<br>1.09E-2<br>0.00E+(<br>1.09E-2<br>1.95E-1<br>0.00E+(<br>1.95E-1<br>0.00E+(<br>0.00E+(<br>0.00E+(<br>0.00E+(<br>1.25E-5  | C3/2           4.59E           0.00E           4.59E           3.69E           3.69E           3.69E           0.00E           1.58E  
   | C3           -1         6.811           +0         0.00E           -1         6.811           +1         3.78E           +1         -3.411           +0         3.82E           +0         0.00E           +0         0.00E           +0         0.00E           +0         0.00E           +2         1.611  
   | 3         C           E-1         3.2           E+0         0.00           E-1         3.2           E+1         4.50           E+1         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00   | 4/1         7           7E-1         -7           0E+0         0           7E-1         -7           0E+0         -3           0E+0         -3           0E+0         -3           0E+0         -3           0E+0         0  
  | D<br>7.88E-2<br>00E+0<br>7.88E-2<br>8.55E-1<br>00E+0<br>3.55E-1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>7.70E-5  | D/1<br>0.00E+0<br>0.00E+0<br>0.00E+0<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/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>-1.58E-3  
   | D/3<br>-5.08E-1<br>-5.08E-1<br>-3.26E+1<br>-3.26E+1<br>4.80E-1<br>0.00E+0<br>0.00E+0<br>-3.08E-3   |
| floord<br>Parama<br>PER<br>PERF<br>PENF<br>PENF<br>PENF<br>SM<br>RSF<br>FW<br>Captio   | eter<br>E<br>M<br>T<br>RE<br>R<br>R<br>F<br>rene<br>of s  | Unit<br>[MJ] 4<br>[MJ] 2<br>[MJ] 1<br>[MJ] 2<br>[MJ] 1<br>[MJ] 2<br>[MJ] 1<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 1<br>PERE =<br>ewable p<br>non-rene<br>ewable p<br>secondary<br><b>OF TH</b>  | 4.05E+1<br>3.90E+1<br>1.09E+1<br>1.11E+2<br>3.43E+1<br>1.45E+2<br>1.18E+0<br>0.00E+0<br>1.04E-1<br>Use of re-<br>rimary er-<br>wable pr-<br>rimary er-<br>y materia  | A4<br>1.96E-1<br>0.00E+0<br>1.96E-1<br>3.52E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.24E-4<br>enewable<br>hergy ress<br>imary en<br>nergy ress<br>il; RSF =  | A5<br>1.64E+0<br>-3.90E-1<br>1.25E+0<br>4.77E+0<br>-2.15E-1<br>4.55E+0<br>3.55E-2<br>0.00E+0<br>0.00E+0<br>3.63E-3<br>primary e  | 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   
  | E<br>+0 1.24<br>+0 0.00<br>+0 1.22<br>+0 7.86<br>+0 0.00<br>+0 7.86<br>+0 0.00<br>+0 0.00<br>+0 0.00<br>+0 0.00<br>+0 4.13<br>excludir<br>aw mat<br>on-rene<br>raw mat<br>e secor  | 32<br>4E+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>D  | C2<br>1.09E-2<br>0.00E+(<br>1.09E-2<br>1.95E-1<br>0.00E+(<br>1.95E-1<br>0.00E+(<br>0.00E+(<br>1.25E-5<br>ewable<br>primar<br>; PENR<br>; PENR<br>www.  | C3/2           2         4.59E           0         0.00E           2         4.59E           3.69E         3.69E           0         -3.41E           2         9.16E           0         0.00E           0         0.00E           0         0.00E           0         0.00E           0         0.00E           1         58E           primary         = Total u           y energy         T = Total RSF = U           ater   
   | C3.           -1         6.811           +0         0.00E           -1         6.811           +1         3.78E           +1         3.78E           +1         3.78E           +1         3.82E           +0         3.82E           +0         0.00E           +0         0.00E           +0         0.00E           +0         0.00E           +2         1.611           energy r         resource           use of res         resource           use of no         no   
   | 3         C           E-1         3.2           E+0         0.00           E-1         3.22           E+1         4.50           E+1         0.00           E+0         0.00 | 4/1           7E-1         -7           0E+0         0           7E-1         -7           0E+0         -3           0E+0         0  
  | D<br>7.88E-2<br>0.00E+0<br>7.88E-2<br>3.55E-1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>7.70E-5<br>s raw m<br>energy p<br>naterials<br>rimary e<br>ondary f   | D/1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>00 | D/2<br>-1.61E+0<br>0.00E+0<br>-7.39E+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>-1.58E-3<br>PERRE<br>1 = Use of<br>ources; S<br>= Use of  | D/3<br>-5.08E-1<br>0.00E+0<br>-3.26E+1<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   |
| floord<br>Parama<br>PER<br>PERF<br>PENF<br>PENF<br>PENF<br>SM<br>RSF<br>FW<br>Captio   | eter<br>E<br>M<br>T<br>RE<br>R<br>R<br>R<br>F<br>r<br>r<br>r<br>of s<br>JLTS  | Unit<br>[MJ] 2<br>[MJ] 3<br>[MJ] 4<br>[MJ] 4<br>[MJ] 1<br>[MJ] 1<br>[MJ] 0<br>[MJ] 1<br>[MJ] 1 | 4.05E+1<br>3.90E+1<br>1.09E+1<br>1.11E+2<br>3.43E+1<br>1.45E+2<br>1.18E+0<br>0.00E+0<br>1.04E-1<br>Use of re-<br>rimary er-<br>wable pr-<br>rimary er-<br>y materia  | A4<br>1.96E-1<br>0.00E+0<br>1.96E-1<br>3.52E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.24E-4<br>enewable<br>hergy ress<br>imary en<br>nergy ress<br>il; RSF =  | A5<br>1.64E+0<br>-3.90E-1<br>1.25E+0<br>4.77E+0<br>-2.15E-1<br>4.55E+0<br>3.55E-2<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>3.63E-3<br>primary e<br>ources us<br>cources us<br>Use of re  | 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  | E<br>+0 1.24<br>+0 0.00<br>+0 1.24<br>+0 0.00<br>+0 7.86<br>+0 0.00<br>+0 7.86<br>+0 0.00<br>+0 4.13<br>excludir<br>aw mat<br>e secor<br>FORIE   
   | 32<br>4E+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>D  | C2<br>1.09E-2<br>0.00E+(<br>1.09E-2<br>1.95E-1<br>0.00E+(<br>1.95E-1<br>0.00E+(<br>0.00E+(<br>1.25E-5<br>ewable<br>primar<br>; PENR<br>; PENR<br>www.  | C3/2           2         4.59E           0         0.00E           2         4.59E           3.69E         3.69E           0         -3.41E           2         9.16E           0         0.00E           0         0.00E           0         0.00E           0         0.00E           0         0.00E           1         58E           primary         = Total u           y energy         T = Total RSF = U           ater   
   | C3,           -1         6.811           +0         0.00E           +1         6.811           +1         3.781           +1         3.781           +0         0.00E           +0         0.00E           +0         0.00E           +0         0.00E           -2         1.611           energy rese of reer           resource         I use of r           se of nor           FLOW  | 3         C           E-1         3.2           E+0         0.00        
  E-1         3.2           E+1         4.50           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.2           E-2         4.1           E-3         used           oon-rene         oon-rene           oon-rene         oon-rene           VS         accc  | 4/1           7E-1         -7           0E+0         0           7E-1         -7           0E+0         -3           0E+0         0  
  | D<br>7.88E-2<br>0.00E+0<br>7.88E-2<br>3.55E-1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>7.70E-5<br>s raw m<br>energy p<br>naterials<br>rimary e<br>ondary f   | D/1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>00 | D/2<br>-1.61E+0<br>0.00E+0<br>-7.39E+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>-1.58E-3<br>PERRE<br>1 = Use of<br>ources; S<br>= Use of  | D/3<br>-5.08E-1<br>0.00E+0<br>-3.26E+1<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  
  |
| floord<br>Parama<br>PER<br>PER<br>PENF<br>PENF<br>PENF<br>SM<br>RSF<br>NRS<br>FW<br>Captio   | eter E E M M T R R R R R R R R R R R R R R R R R  | Unit<br>[MJ] 2<br>[MJ] 3<br>[MJ] 4<br>[MJ] 4<br>[MJ] 1<br>[MJ] 1<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 0<br>[MJ] 1<br>[MJ] 0<br>[MJ] 1<br>[MJ] 0<br>[MJ] 1<br>[MJ] 0<br>[MJ] 1<br>[MJ] 0<br>[MJ] 1<br>[MJ] 0<br>[MJ] 1<br>[MJ] 1 | 4.05E+1<br>3.390E+1<br>4.09E+1<br>1.11E+2<br>3.43E+1<br>1.45E+2<br>1.18E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.04E-1<br>Use of re<br>rimary e<br>wable pr<br>rimary e<br>y materia  | A4<br>1.96E-1<br>0.00E+0<br>1.96E-1<br>3.52E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.24E-4<br>anewable<br>bergy ress<br>imary en<br>nergy ress<br>imary en<br>nergy ress  | A5<br>1.64E+0<br>-3.90E-1<br>1.25E+0<br>2.15E-1<br>4.55E+0<br>3.55E-2<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>3.63E-3<br>primary e<br>ources us<br>ergy exclt<br>ources us<br>sergy exclt<br>STE C/<br>A5                              | B1           0.00E           nergy           ed as in           newable           ATEG           B1  | E<br>+0 1.24<br>+0 0.00<br>+0 1.24<br>+0 7.86<br>+0 0.00<br>+0 7.86<br>+0 0.00<br>+0 0.00     | 32<br>4E+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>D  | C2<br>1.09E-2<br>0.00E+(<br>1.09E-2<br>1.95E-1<br>0.00E+(<br>1.95E-1<br>0.00E+(<br>0.00E+(<br>1.25E-2<br>ewable<br>; PERT<br>; PENR<br>fuels; N<br>w<br>ND OL  | C3/2           2         4.59E           0         0.00E           2         4.59E           1         3.69E           2         4.59E           0         -3.41E           1         2.91E           0         0.00E           0         0.00E           0         0.00E           1         5.8E           primary         Total u           y energy         T = Total u           RSF = U         ater           JTPUT         C3/2   | C3.           -1         6.811           +0         0.006           -1         6.811           +0         0.006           +1         3.785           +1         3.785           +1         3.826           +0         0.007           +1         1.611           energy r         rsso of nor           FLOW         1.611           +1         C3.411 <td>3         C           E-1         3.2           E+0         0.00           E-1         3.2.2           E+1         4.50           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+2         4.1           esources         used           ioon-rene         ioon-rene           i-renewa         // S           // S         accc           3         C</td> <td>4/1         -7           7E-1         -7           0E+0         0           7E-1         -7           0E+0         -3           0E+0         0           0as raw r         wable sec           ording         0           4/1         0</td> <td>D<br/></td> <td>D/1<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>1.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0</td> <td>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/>1.58E-3<br/>2ERM = L<br/>; PENRE<br/>1 = Use of<br/>0.00Ces; 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/>4.80E-1<br/>0.00E+0<br/>-3.08E-3<br/>JSe of<br/>f non-<br/>SM = Use of<br/>f non-<br/>SM = Use</td> | 3         C           E-1         3.2           E+0         0.00           E-1         3.2.2           E+1         4.50           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+2         4.1           esources         used           ioon-rene         ioon-rene           i-renewa         // S           // S         accc           3         C   | 4/1         -7           7E-1         -7           0E+0         0           7E-1         -7           0E+0         -3           0E+0         0           0as raw r         wable sec           ording         0           4/1         0  | D<br>  | D/1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<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/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>1.58E-3<br>2ERM = L<br>; PENRE<br>1 = Use of<br>0.00Ces; 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>4.80E-1<br>0.00E+0<br>-3.08E-3<br>JSe of<br>f non-<br>SM = Use of<br>f non-<br>SM = Use  |
| floord<br>Parama<br>PER<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>F<br>F<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | Unit           [MJ]         2           [MJ]         3           [MJ]         4           [MJ]         4           [MJ]         4           [MJ]         1           [M   | 4.05E+1<br>3.09E+1<br>4.09E+1<br>1.11E+2<br>3.43E+1<br>1.45E+2<br>1.18E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.04E-1<br>Use of re<br>rimary er<br>wable pr<br>rimary er<br>wable pr<br>rimary er<br>wable pr<br>rimary er<br>wable pr<br>rimary er<br>wable pr<br>rimary er<br>the LCA<br>1.79E-3<br>5.94E-1   | A4<br>1.96E-1<br>0.00E+0<br>1.96E-1<br>1.96E-1<br>3.52E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.24E-4<br>nergy ress<br>imary en<br>nergy ress<br>imary en<br>nergy ress<br>imary en<br>nergy ress<br>imary en<br>nergy ress<br>1, RSF =<br>A – WA<br>A4<br>1.77E-10<br>5.23E-4   | A5<br>1.64E+0<br>-3.90E-1<br>1.25E+0<br>4.77E+0<br>-2.15E-1<br>4.55E+0<br>3.55E-2<br>0.00E+0<br>3.63E-3<br>primary e<br>ources us<br>ergy exclu-<br>ources us<br>Use of re<br>STE C/<br>A5<br>5.35E-5<br>5.26E-2   | B1           0.00E           newabl           ATEG           B1           0.00E           0.00E  | E           +0         1.22           +0         0.00           +0         1.24           +0         0.00           +0         7.86           +0         0.00           +0         7.86           +0         0.00           +0         4.13           excludir         aw mat           escludir         aw mat           escludir         escludir           aw mat         e           e         secor  
  | <b>32</b><br>4E+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>S AN<br><b>32</b><br><b>33</b><br><b>32</b><br>DE-10<br>2E-3  | C2<br>1.09E-2<br>0.00E+(<br>1.09E-2<br>1.95E-1<br>0.00E+(<br>1.95E-1<br>0.00E+(<br>0.00E+(<br>0.00E+(<br>0.00E+(<br>1.25E-2<br>ewable<br>; PERT<br>; PENR<br>fuels; N<br>wa<br>ND OL<br>C2<br>1.00E-1<br>2.90E-2   | C3/2           4.59E           0.00E           2         4.59E           1         3.69E           3.41E         2.91E           0         0.00E           0         0.0E           0         0.0E           0         0.0E           0         0.0E           0         0.0E           0  
  | C3.           -1         6.811           +0         0.00E           +1         6.811           +0         1.378           +1         3.411           +0         3.82E           +0         0.00E           +0         0.00E           +0         0.00E           -2         1.611           energy rese of ren           see of r nor           FLOW   
  | 3         C           E-1         3.2           E+0         0.00           E-1         3.2           E+1         4.50           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E-2         4.1           essources         essources           essources         essources           assources         acc           3         C           E-8         8.06           E+0         4.26   | 4/1         -7           7E-1         -7           0E+0         0           7E-1         -7           0E+0         0           0E+0         -30           0E+0         0           0DE+0         0           0as raw r         wable sec           ordding         0           0de         0  
  | D           7.88E-2           .00E+0           7.88E-2           3.55E-1           .00E+0           3.55E-1           .00E+0           .00E+11           .65E-4   | D/1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.00E+0<br>D/1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0   | D/2<br>-1.61E+0<br>0.00E+0<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>1.58E-3<br>-2ERM = L<br>; PENRE<br>1 = Use of<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>0.00E+0<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>0.00E+0<br>-3.26E+1<br>0.00E+0<br>-3.08E-3<br>JSe of<br>f non-<br>SM = Use of<br>f non-<br>SM = Use of<br>f non-<br>SM = Use<br>net fresh<br>D/3<br>-2.45E-9<br>-2.38E-1  
   |
| floord<br>Parama<br>PER<br>PERF<br>PENF<br>PENF<br>SM<br>RSS<br>FW<br>Captio<br>Captio   | eter E F T T F F F F F F F F F F F F F F F F  | Unit           [MJ]           [M]  | 4.05E+1<br>3.90E+1<br>4.09E+1<br>1.11E+2<br>3.43E+1<br>1.45E+2<br>1.18E+0<br>0.00E+0<br>1.04E-1<br>Use of refrimary erewable privinary erewable p   | A4<br>1.96E-1<br>0.00E+0<br>1.96E-1<br>3.52E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.24E-4<br>anewable<br>bergy ress<br>imary en<br>nergy ress<br>imary en<br>nergy ress<br>imary en<br>A – WA<br>A4<br>1.77E-10<br>5.23E-4<br>4.26E-6  | A5<br>1.64E+0<br>-3.90E-1<br>1.25E+0<br>4.77E+0<br>-2.15E-1<br>4.55E+0<br>3.56E-2<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>3.63E-3<br>primary cources us<br>use of re<br>STE C/<br>A5<br>5.35E-5<br>5.25E-2<br>9.64E-5                             | B1 0.00E   | E<br>+0 1.24<br>+0 0.00<br>+0 1.22<br>+0 7.86<br>+0 0.00<br>+0 7.86<br>+0 0.00<br>+0 4.13<br>excludir<br>aw mat<br>on-rene<br>raw mat<br>e secor<br>ORIE<br>E<br>+0 5.90<br>+0 5.60<br>+0 3.33   | 32<br>4E+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>S AN<br>32<br>S AN<br>32<br>DE-10<br>2E-3<br>2E-4  | C2<br>1.09E-2<br>0.00E+(<br>1.09E-2<br>1.95E-1<br>0.00E+(<br>1.95E-1<br>0.00E+(<br>0.00E+(<br>1.95E-1<br>0.00E+(<br>1.25E-5<br>ewable<br>primar<br>primar<br>primar<br>ND OL<br>C2<br>1.00E-1<br>2.90E-5<br>2.36E-7  | C3/2           2         4.59E           0         0.00E           2         4.59E           3.69E         3.69E           0         3.41E           1         2.91E           0         0.00E           0         0.00E </td <td>C3.           -1         6.811           +0         0.001           -1         6.811           +1         3.782           +1         3.782           +0         3.822           +0         3.822           +0         0.002           +0         0.002           +0         0.002           +0         0.002           +0         0.002           +1         3.81           P         0.002           -2         1.611           energy resource         use of resident of non           FLOW        </td> <td>3         C           5-1         3.2           5+0         0.00           5-1         3.22           5+1         4.50           5+1         4.50           5+0         0.00           5+0         4.50           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         1.2           5+0         4.22           5+0         4.22           5+0         4.22           5+0         5-2</td> <td>4/1         -7           7E-1         -7           0E+0         0           7E-1         -7           0E+0         0           0E+0         -3           0E+0         -3           0E+0         0           0B+0         0           0B+0         0           0Able sec         0     &lt;</td> <td>D<br/>7.88E-2<br/>0.00E+0<br/>3.55E-1<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>s raw m<br/>energy i<br/>materials<br/>rimary e<br/>ondary f<br/>g to El<br/>D<br/>0.00E-11<br/>1.65E-4<br/>2.54E-5</td> <td>D/1<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>1.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0</td> <td>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/>1.58E-3<br/>ERM = L<br/>S = Use of<br/>0.00E+0<br/>-1.65E-9<br/>-3.41E-3<br/>-5.19E-4</td> <td>D/3<br/>-5.08E-1<br/>-5.08E-1<br/>-3.26E+1<br/>-3.26E+1<br/>4.80E-1<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.00E+0<br/>0.0</td>  | C3.           -1         6.811           +0         0.001           -1         6.811           +1         3.782           +1         3.782           +0         3.822           +0         3.822           +0         0.002           +0         0.002           +0         0.002           +0         0.002           +0         0.002           +1         3.81           P         0.002           -2         1.611           energy resource         use of resident of non           FLOW  | 3         C           5-1         3.2           5+0         0.00           5-1         3.22           5+1         4.50           5+1         4.50           5+0         0.00           5+0         4.50           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         1.2           5+0         4.22           5+0         4.22           5+0         4.22           5+0         5-2  | 4/1         -7           7E-1         -7           0E+0         0           7E-1         -7           0E+0         0           0E+0         -3           0E+0         -3           0E+0         0           0B+0         0           0B+0         0           0Able sec         0     <   | D<br>7.88E-2<br>0.00E+0<br>3.55E-1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>s raw m<br>energy i<br>materials<br>rimary e<br>ondary f<br>g to El<br>D<br>0.00E-11<br>1.65E-4<br>2.54E-5   | D/1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>1.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<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/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>1.58E-3<br>ERM = L<br>S = Use of<br>0.00E+0<br>-1.65E-9<br>-3.41E-3<br>-5.19E-4   | D/3<br>-5.08E-1<br>-5.08E-1<br>-3.26E+1<br>-3.26E+1<br>4.80E-1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.0   |
| floord<br>Parama<br>PER<br>PER<br>PENF<br>PENF<br>PENF<br>SM<br>RSF<br>NRS<br>FW<br>Captio   | eter  E  M  M  T  R  F  F  F  J  JLTS  floor  D  J  J  J  J  J  J  J  J  J  J  J  J                                     | Unit<br>[MJ] 2<br>[MJ] 2<br>[MJ] 4<br>[MJ] 2<br>[MJ] 1<br>[MJ] 2<br>[MJ] 2 | 4.05E+1<br>3.90E+1<br>4.09E+1<br>1.11E+2<br>3.43E+1<br>1.45E+2<br>1.18E+0<br>0.00E+0<br>1.04E-1<br>Use of re-<br>rimary er-<br>wable pr-<br>rimary er-<br>y material<br><b>1E LCA</b><br><b>ng</b><br><b>A1-A3</b><br>1.79E-3<br>5.94E+1<br>3.10E-3<br>0.00E+0   | A4<br>1.96E-1<br>0.00E+0<br>1.96E-1<br>3.52E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>2.24E-4<br>anewable<br>bergy ress<br>imary en<br>nergy ress<br>imary en<br>nergy ress<br>imary en<br>A – WA<br>A4<br>1.77E-10<br>5.23E-4<br>4.26E-6  | A5<br>1.64E+0<br>-3.90E-1<br>1.25E+0<br>4.77E+0<br>-2.15E-1<br>4.55E+0<br>3.55E-2<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>3.63E-3<br>primary e<br>ources us<br>ources us<br>ources us<br>STE C/<br>A5<br>5.36E-5<br>5.25E-2<br>9.64E-5<br>0.00E+0 | B1 0.00E   | E           +0         1.24           +0         0.00           +0         1.22           +0         0.00           +0         1.22           +0         7.86           +0         0.00           +0         7.86           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         0.00           +0         4.11           excludir         aw mate           on-rene         raw mate           e secord         E           FORIE         E           +0         5.00           +0         5.62           +0         5.63           +0         3.32           +0         0.00   
                   | 32<br>4E+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>DE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0<br>SE+0   | C2<br>1.09E-2<br>0.00E+(<br>1.09E-2<br>1.95E-1<br>0.00E+(<br>1.95E-1<br>0.00E+(<br>0.00E+(<br>0.00E+(<br>0.00E+(<br>1.25E-2<br>ewable<br>; PERT<br>; PENR<br>fuels; N<br>wa<br>ND OL<br>C2<br>1.00E-1<br>2.90E-2   | C3/2           2         4.59E           0         0.00E           2         4.59E           0         3.69E           0         -3.41E           1         2.91E           0         0.00E           1         1.58E           T         Total u           y energy         T = Total u           y energy         T = Total u           JTPUT         T           JTPUT         T           JTPUT         T           0         1.12E           1         1.23E           1         1.23E   
   | C3.           -1         6.811           +0         0.006           -1         6.811           +1         3.785           +1         3.785           +1         3.785           +1         3.785           +1         3.785           +1         -3.411           +0         3.822           +0         0.005           +0         0.005           +0         0.005           +0         0.005           -2         1.611           ese of non         0.005           FLOW   | 3         C           E-1         3.2           E+0         0.00           E-1         3.2           E+1         4.50           E+1         0.00           E+1         4.50           E+1         0.00           E+0         4.50           E+0         0.00           E+0         4.50           E+0         0.00           E+0         2.4.1           esources         ewable           es used         sources           ewable         sused          
oon-rene        renewa           /S         accc           3         C           E-8         8.06           E+0         4.22           E+4         5.2           E+0         4.52  | 4/1       7E-1       -70E+0       07E-1       77E-1       77E-1       77E-1       78E+0       00E+0   
   | D<br>7.88E-2<br>0.00E+0<br>7.88E-2<br>3.55E-1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>7.70E-5<br>s raw m<br>energy<br>materials<br>rimary e<br>ondary f<br>g to El<br>D<br>0.00E-11<br>1.65E-4<br>2.54E-5<br>0.00E+0  | D/1<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<br>0.00E+0<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/2<br>-1.61E+0<br>0.00E+0<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>1.58E-3<br>2ERM = L<br>; PENRE<br>1 = Use of<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>-3.08E-3<br>Jse of<br>ron-<br>SM = Use of<br>fron-<br>SM = Use of<br>ron-<br>SM = Use of<br>ron-<br>ron-<br>SM = Use of<br>ron-<br>ron-<br>SM = Use
of<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron-<br>ron- |
floord Parama PER PER PENF PENF PENF SM SM SM SM Captio Captio RESU 1 m <sup>2</sup> 1 Parama HWD NHW RATE NHW	eter  E  M  K  C  C  C  C  C  C  C  C  C  C  C  C	Unit           [MJ]           [M]           [	4.05E+1 3.90E+1 4.09E+1 1.10E+2 3.43E+1 1.45E+2 1.18E+0 0.00E+0 1.04E-1 Use of refrimary erivable privinary erivation of the second s	A4 1.96E-1 0.00E+0 1.96E-1 3.52E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.77E-10 5.23E-4 4.26E-6 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0	A5 1.64E+0 -3.90E-1 1.25E+0 4.77E+0 -2.15E-1 4.55E+0 3.55E-2 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 STE C/ A5 5.35E-5 5.25E-2 9.64E-5 0.00E+0 1.30E-1 0.00E+0	B1 0.00E 0.0	E           +0         1.24           +0         0.00           +0         1.22           +0         1.24           +0         1.24           +0         1.24           +0         7.86           +0         0.00           +0         7.86           +0         0.00           +0         4.11           excludir         aw mat           on-rene         raw mat           e secort         E           +0         5.90           +0         5.60           +0         5.60           +0         0.00           +0         0.00           +0         0.00	32 4E+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 SE-	C2 1.09E-2 0.00E+( 1.95E-1 0.00E+( 1.95E-1 0.00E+( 0.00E+( 0.00E+( 0.00E+( 1.25E-2 ewable PERT PERT PERR fuels; N W ND OL 1.00E-1 2.36E-7 0.00E+(	C3/2           2         4.59E           0         0.00E           2         4.59E           1         3.69E           2         4.59E           3.69E         3.69E           1         2.91E           0         0.00E           0         0.00E           0         0.00E           1         1.58E           Primary         Total u           y energy         T Total u           RSF = U         uater           JTPUT         1.23E           1         1.23E           1         1.23E           1         1.23E           1         1.23E           0         0.00E           0         0.00E           0         0.00E	C3.           -1         6.811           +0         0.006           -1         6.811           +0         0.006           +1         6.811           +1         6.811           +1         6.811           +1         6.811           +0         0.006           +0         0.006           +0         0.006           +0         0.006           +0         0.006           +0         0.006           -2         1.611           energy r         resource           resource         resource           FLOW         8           8         1.244           +0         1.056           4         1.744           +0         0.006           +0         0.006	3         C           E-1         3.2           E+0         0.00           E-1         3.2.2           E+1         4.50           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+2         4.1           Boources         10.00           E+2         4.1           Boources         10.00           E+0         0.00           E-8         8.08           E+0         0.2           3         C           E-8         8.02           E-4         5.2           E-4         5.2           H-0         0.00           E-4         5.2           H-0         0.00           E-4         5.2           H-0         0.00           E+0         0.00	4/1         -7           7E-1         -7           0E+0         0           7E-1         -7           0E+0         -3           0E+0         0           0able         second           0rding         -7           able         second           0rding         -7           0         -7           0         -7           0         -7           0         -7           0         -7           able         second           0         -7           0         -7           0         -7           0         -7           0         -7           0         -7           0         0           0         0 <tr< td=""><td>D (.88E-2 (.00E+0) (.855E-1 (.00E+0) (.00E+1) (.65E-4 (.2.54E-5 (.00E+0) (.</td><td>D/1 0.00E+0 00</td><td>D/2 -1.61E+0 0.00E+0 -1.61E+0 0.00E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1 = Use of SPENRE 1 = Use of 0.00E+0</td><td>D/3 -5.08E-1 0.00E+0 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 -3.08E-3 Jse of ron- sM = Use of fnon- sM = Use of fnon- sM = Use of ron- sM = Use of ron- ron- sM = Use of ron-</td></tr<>	D (.88E-2 (.00E+0) (.855E-1 (.00E+0) (.00E+1) (.65E-4 (.2.54E-5 (.00E+0) (.	D/1 0.00E+0 00	D/2 -1.61E+0 0.00E+0 -1.61E+0 0.00E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1 = Use of SPENRE 1 = Use of 0.00E+0	D/3 -5.08E-1 0.00E+0 -3.26E+1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 -3.08E-3 Jse of ron- sM = Use of fnon- sM = Use of fnon- sM = Use of ron- sM = Use of ron- ron- sM = Use of ron-
floord Parama PER PER PENF PENF PENF SM SM SM SM Captio Captio RESU 1 m <sup>2</sup> 1 Parama HWI NHW RWI CRL MEF EEE	eter  E  M  T  T  R  R  F  F  F  F  F  C  F  C  C  C  C  C  C	Unit           [MJ]           [M]	4.05E+1 3.09E+1 4.09E+1 1.10E+2 3.43E+1 1.45E+2 1.18E+0 0.00E+0 0.00E+0 1.04E-1 Use of re rimary er wable pr rimary er wable pr rimary er wable pr rimary er wable pr rimary er wable pr rimary er wable pr 1.04E-1 Use of re rimary er wable pr rimary er wable pr rimary er wable pr rimary er wable pr rimary er 2.00E+0 0.0	A4 1.96E-1 0.00E+0 1.96E-1 3.52E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 2.24E-4 2.24E-4 2.24E-4 A A A A A 1.77E-10 5.23E-4 4.26E-6 0.00E+0 0	A5 1.64E+0 -3.90E-1 1.25E+0 4.77E+0 -2.15E-1 4.55E+0 3.55E-2 0.00E+0 3.63E-3 3.63E-3 5.36E-5 5.25E-2 9.64E-5 0.00E+0 1.30E-1 0.00E+0 3.70E-2	B1 0.00E 0.0	E +0 1.24 +0 0.00 +0 1.24 +0 7.86 +0 0.00 +0 7.86 +0 0.00 +0 0.00 +0 4.11 excludin aw mat on-rene raw mat e secor CRIE E +0 5.90 +0 5.61 +0 3.33 +0 0.00 +0 0.00	32 4E+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 DE+0 S AN 32 32 DE+10 2E-3 2E-4 DE+0	C2 1.09E-2 0.00E+( 1.09E-2 1.95E-1 0.00E+( 1.95E-1 0.00E+( 0.00E+( 0.00E+( 0.00E+( 0.00E+( 0.00E-1 2.90E-5 2.36E-7 0.00E+(	C3/2           2         4.59E           0         0.00E           2         4.59E           2         4.59E           3.69E         3.41E           1         2.91E           0         0.00E           1         1.23E           1         1.23E           1         1.23E           1         1.23E           1         1.12E           0         0.00E           0         0.00E           0         0.00E           0         0.00E           0         0.00E           0         0.00E	C3.           -1         6.811           +0         0.006           +1         3.788           +1         3.788           +1         3.781           +0         0.006           +1         3.828           +0         0.006           +0         0.006           +0         0.006           +0         0.006           -2         1.611           22         1.611           122         1.612           14         0.006           -2         1.611           22         1.611           23         1.611           14         0.006           -0         0.006           -1.155	3         C           E-1         3.2           E+1         3.2           E+1         3.2           E+1         4.50           E+0         0.00           S         CC           3         C           E+0         4.22           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00           E+0         0.00	4/1         -7           7E-1         -7           9E+0         0           7E-1         -7           9E+0         0           9Able secc         0           9E+0         0           9E+0         -1           9E+0         0	D           .88E-2           .00E+0           7.88E-2           .00E+0           .355E-1           .00E+0           .355E-1           .00E+0           .00E+0           .00E+0           .00E+0           .00E+0           .00E+0           .00E+0           .00E+0           .00E+10           .00E+11           .65E-4           .254E+5           .00E+0           .00E+0           .00E+0           .00E+0	D/1 0.00E+0 00	D/2 -1.61E+0 0.00E+0 -1.61E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 2ERM = L 5; PENRE 1 = Use of 0.00E+0 1.58E-3 -1.65E-9 -3.41E-3 -5.19E-4 0.00E+0	D/3 -5.08E-1 0.00E+0 -5.08E-1 0.00E+0 -3.26E+1 4.80E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 5M = Use of fnon- SM = Use of fnon- fno
floord Parama PER PER PENF PENF PENF SM SM SM SM Captio RESU 1 m <sup>2</sup> 1 Parama HWD NHW RATE NHW	eter E E M T T T R E R M T T R E R M I T T R R I R T I R R R T I R R R R R R	Unit           [MJ]           [M]           [M]           [M]           [Kg]           [Kg]           [Kg]           [Kg]           [Kg]           [Kg]           [Kg]           [MJ]           [MJ]           [M]	4.05E+1 3.90E+1 4.09E+1 1.11E+2 3.43E+1 1.45E+2 1.18E+0 0.00E+0 1.04E-1 Use of refrimary ere wable primary ere wable primary ere y material 1.179E-3 5.94E-1 3.10E-3 0.00E+0 2.28E-2 0.00E+0 0.00E+0 0.00E+0 1.00E+0 0.00E+0 1.00E+0 0.	A4 1.96E-1 0.00E+0 1.96E-1 3.52E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.224E4 anewable bergy ress imary en nergy ress d; RSF = A – WA A 1.77E-10 5.23E-4 4.26E-6 0.00E+0	A5 1.64E+0 -3.90E-1 1.25E+0 4.77E+0 -2.15E-1 4.55E+0 3.55E-2 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 STE C/ STE C/ A5 5.35E-5 5.25E-2 9.64E-5 0.00E+0 1.30E-1 0.00E+0 3.70E-2 6.81E-2	B1           0.00E           as r           ading n           sed as r           ading n           add as r           ading n           ad as r	E +0 1.24 +0 0.00 +0 1.22 +0 7.86 +0 0.00 +0 7.86 +0 0.00 +0 4.13 excludir aw mat on-rener aw mat e secor E +0 5.90 +0 5.66 +0 3.33 +0 0.00 +0 0.00 +0 0.00 +0 5.66 +0 3.33 +0 0.00 +0 0.0	32 4E+0 DE+0	C2 1.09E-2 1.09E-2 1.95E-1 0.00E+( 1.95E-1 0.00E+( 0.00E+( 1.95E-1 0.00E+( 0.00E+( 1.25E-5 ewable primar primar primar ND OL C2 1.00E-1 2.90E-5 2.36E-7 0.00E+( 0	C3/2           2         4.59E           0         0.00E           2         4.59E           0         0.00E           1         2.91E           0         0.00E           1         1.58E           V         T = Total u           y = rotal u         v           y = rotal u         v           y = Total u </td <td>C3.           -1         6.811           +0         0.006           -1         6.811           +1         3.786           +1         3.786           +1         3.786           +1         3.786           +1         3.786           +1         3.786           +1         3.786           +1         3.411           +0         3.822           +0         0.0006           +0         0.0006           -0         0.0006           -2         1.611           energy resource         use of regenerous           resource         use of regenerous           resource         use of regenerous           s         C33           8         1.244           +0         1.156           +0         0.0006           +0         0.0006           +0         0.0006           +0         0.0006           +0         0.0006</td> <td>3         C           3         C           5-1         3.2           1-1         3.2           2+1         4.50           5+1         4.50           5+1         0.00           2+1         4.50           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         4.22           5+0         0.00           5+0         4.22           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00</td> <td>4/1         -7           7E-1         -7           DE+0         0           7E-1         -7           DE+0         -3           DE+0         -3           DE+0         -3           DE+0         0           DE+0         0</td> <td>D           7.88E-2           0.00E+0           3.55E-1           0.00E+0           3.55E-1           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+11           1.65E-4           2.54E-5           0.00E+0           0.00E+0</td> <td>D/1           0.00E+0           0.00E+0</td> <td>D/2 -1.61E+0 0.00E+0 -7.39E+0 0.00E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 ERM = L ; PENRE 1 = Use of ources; S = Use of 0.00E+0 -1.65E-9 -3.41E-3 -5.19E-4 0.00E+0 0.00</td> <td>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 0.00E+</td>	C3.           -1         6.811           +0         0.006           -1         6.811           +1         3.786           +1         3.786           +1         3.786           +1         3.786           +1         3.786           +1         3.786           +1         3.786           +1         3.411           +0         3.822           +0         0.0006           +0         0.0006           -0         0.0006           -2         1.611           energy resource         use of regenerous           resource         use of regenerous           resource         use of regenerous           s         C33           8         1.244           +0         1.156           +0         0.0006           +0         0.0006           +0         0.0006           +0         0.0006           +0         0.0006	3         C           3         C           5-1         3.2           1-1         3.2           2+1         4.50           5+1         4.50           5+1         0.00           2+1         4.50           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         4.22           5+0         0.00           5+0         4.22           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00           5+0         0.00	4/1         -7           7E-1         -7           DE+0         0           7E-1         -7           DE+0         -3           DE+0         -3           DE+0         -3           DE+0         0	D           7.88E-2           0.00E+0           3.55E-1           0.00E+0           3.55E-1           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+0           0.00E+11           1.65E-4           2.54E-5           0.00E+0	D/1           0.00E+0	D/2 -1.61E+0 0.00E+0 -7.39E+0 0.00E+0 -7.39E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.58E-3 ERM = L ; PENRE 1 = Use of ources; S = Use of 0.00E+0 -1.65E-9 -3.41E-3 -5.19E-4 0.00E+0 0.00	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 0.00E+



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