Declaration of conformity for products with Model EPDs

FEICA (Association of European Adhesive & Sealant Industry) has developed socalled Model Environmental Product Declarations (Model EPDs) and had them independently verified by the Institute Construction and Environment (IBU). These IBU verified Model EPDs have been made publicly available by FEICA and IBU. The Model EPDs represent the current production technology in Europe. ARDEX GmbH as a member of Deutsche Bauchemie e.V., which is a national association member of FEICA, has the right to declare that a specific FEICA Model EPD applies to the named product listed below. The compliance of our products to the Model EPDs is checked on the base of our formulations, by using an IBU-approved guideline procedure. We hereby declare that the product

ARDEX A 60, High load fast setting screed binder

meets the criteria of the attached Model EPD

EPD-DBC-20220217-IBF1-EN for "Modified mineral mortars, group 1".

This means that the life cycle assessment data and other content of the Model EPD apply to these named products and may be used for sustainability assessment of the construction products and construction projects, in which they are used.

ARDEX GmbH

Dr. Julia Soldat Global Sustainability Manager

Appendix: EPD with declaration number: EPD-DBC-20220217-IBF1-EN ARDEX GmbH Friedrich-Ebert-Straße 45 58453 Witten www.ardex.de

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ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

| Owner of the Declaration | FEICA, EFCC, IVK, DBC |
|--------------------------|--------------------------------------|
| Programme holder | Institut Bauen und Umwelt e.V. (IBU) |
| Publisher | Institut Bauen und Umwelt e.V. (IBU) |
| Declaration number | EPD-DBC-20220217-IBF1-EN |
| Issue date | 26.09.2022 |
| Valid to | 25.09.2027 |

Modified mineral mortars, group 1

- FEICA Association of the European Adhesive and Sealant Industry
- EFCC European Federation for Construction Chemicals
- IVK Industrieverband Klebstoffe e.V.
- DBC Deutsche Bauchemie e.V.



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





1. General Information

DBC - Deutsche Bauchemie e.V. EFCC - European Federation for Construction Chemicals FEICA - Association of the European Adhesive and Sealant Industry IVK - Industrieverband Klebstoffe e.V.

Programme holder

IBU – Institut Bauen und Umwelt e.V. Hegelplatz 1 10117 Berlin Germany

Declaration number

EPD-DBC-20220217-IBF1-EN

This declaration is based on the product category rules:

Mineral factory-made mortar, 11.2017 (PCR checked and approved by the SVR)

Issue date 26.09.2022

Valid to 25.09.2027

Man Letter

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

a laly

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

2. Product

2.1 Product description/Product definition

Modified mineral mortars are combinations of one or more inorganic binders, fillers, aqueous dispersions or dispersion powders, water and if necessary additives. They comply with manifold, often specific, functions in the construction, furnishing and refurbishment of buildings. The product displaying the highest environmental impacts was used as a representative product for calculating the Life Cycle Assessment results (worst-case approach). Modified mineral mortars, group 1

Owner of the declaration

DBC, Mainzer Landstr. 55, D-60329 Frankfurt a.M. EFCC, 172 Boulevard du Triomphe, B-1160 Brussels FEICA, Rue Belliard 40, B-1040 Brussels IVK, Völklingerstr. 4, D-40219 Düsseldorf

Declared product / declared unit

1 kg of modified mineral mortar with a density 800 - 1,700 kg/m³

Scope:

This verified EPD entitles the holder to bear the symbol of the Institut Bauen und Umwelt e.V. It exclusively applies to products produced in Europe and for a period of five years from the date of issue. This EPD may be used by members of FEICA, EFCC, DBC and IVK and their members provided it has been proven that the respective product can be represented by this EPD. For this purpose, a guideline is available at the secretariats of the four associations. The members of the associations are listed on their respective websites.

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+A2*. 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 14025:2011

internally x externally

1. Schult

Matthias Schulz (Independent verifier)

For the placing on the market in the European Union/European Free Trade Association (EU/EFTA) with the exception of Switzerland) products falling under the Regulation (EU) No 305/2011 (*CPR*) need a Declaration of Performance taking into consideration either the relevant harmonised European standard or the European Technical Assessment and the CE marking. For the application and use of the products the respective national provisions apply.



2.2 Application

Modified mineral mortars are used for the following applications:

Module 1: Modified mineral mortars as repair mortar for the protection and repair of concrete structures

1.1 Products used to restore and/or replace defective concrete

1.2 Products to protect reinforcement, necessary to extend the service life of a concrete structure exhibiting deterioration

Module 2: Adhesives based on modified mineral mortars

2.1 Products for bonding ceramic tiles as well as natural stone for internal and external installations on walls, floors and ceilings

2.2 Products for bonding thermal insulation composite panels

Module 3: Modified mineral mortars as joint fillers

Products for joint filling of wall and floor coverings made of ceramic tiles as well as natural stone for indoor and outdoor applications

Module 4: Modified mineral mortars as screed, floor levelling compounds, fillers, flowing screed Products for screed/synthetic resin screed for use in floor constructions

Module 5: Modified mineral mortars as levelling compounds for walls and ceilings

Products for levelling and repairing rough, uneven walls, for repairing grit spots, closing blowholes and modelling broken corners and edges

Module 6: Modified mineral mortars as grouts

Products for grouting on holes, recesses, concrete precast columns, foundations and for anchoring machine components indoors and outdoors

Module 7: Modified mineral mortars for liquid applied products for waterproofing of buildings

Products for providing cement-based waterproofing surfaces in structural and civil engineering. For use in new and old buildings as well as beneath tiles

7.1 Liquid-applied water impermeable products for use beneath ceramic tiling

7.2 Products for waterproofing with mineral waterproofing slurries or flexible polymer modified thick coatings

7.3 Products for water proofing in conjunction with ceramic tiles

7.4 Products for waterproofing with flexible polymer modified mineral thick coatings

Module 8: Modified mineral mortars for

waterproofing floors and/or walls inside buildings Products for watertight covering in wet rooms inside buildings

2.3 Technical Data

The density of the products is between 0,80 and 1,70 g/cm³, other relevant technical data can be found in the manufacturer's technical documentation. Construction products with Declaration of Performance in accordance with *CPR* and the manufacturer's technical documentation:

Module 1: Modified mineral mortars as repair mortar for the protection and repair of concrete structures

1.1 Products used to restore and/or replace defective concrete

The requirements on essential characteristics for all intended uses in accordance with *EN 1504-3*, Tables 1 and 3, must be maintained. These are:

- Compressive strength (EN 12190)
- Chloride ion content (EN 1015-17)
- Adhesive strength by pull-off test (EN 1542)

1.2 Products to protect reinforcement

The requirements on essential characteristics for all intended uses in accordance with *EN 1504-7*, Table 1, must be maintained. This is

- Corrosion protection (EN 15183)

Further essential characteristics in accordance with the manufacturer's technical documentation/declaration of performance

Module 2: Adhesives based on modified mineral mortars

2.1 Products for bonding ceramic tiles as well as natural stone for internal and external installations on walls, floors and ceilings

The requirements on essential characteristics according to *EN 12004*, Table 1, must be maintained. These are:

- Tensile adhesion strength after dry storage (*EN* 12004-2)

- Tensile adhesion strength after water immersion (*EN* 12004-2)

- Tensile adhesion strength after heat ageing (EN 12004-2)

- Tensile adhesion strength after freeze/thaw cycles (EN 12004-2)

- Open time: Tensile strength (*EN 12004-2*) Further essential characteristics in accordance with the manufacturer's technical documentation/declaration of performance

2.2 The minimum requirement of *EAD* 040083-00-0404 External Thermal Insulation Composite Systems with Rendering must be maintained. The essential characteristics are to be specified in accordance with the European technical assessment (ETA, specification no.). Further essential characteristics in accordance with the manufacturer's technical documentation/declaration of performance

Module 3: Modified mineral mortars as joint fillers The minimum requirements of *EN 13888* must be maintained.

Module 4: Modified mineral mortars as screed, floor levelling compounds, fillers, flowing screed The requirements on essential characteristics according to *EN 13813* 'Screed material and floor screeds – Screed materials – Properties and requirements' must be maintained. For eventhetic regin

requirements' must be maintained. For synthetic resin screeds, these are:

- Bond strength (EN 13892-8)

- Reaction to fire (EN 13501-1)

Further essential characteristics in accordance with the manufacturer's technical documentation/declaration of performance

Module 5: Modified mineral mortars as levelling compounds for walls and ceilings Module 5.1: The minimum requirements of *EN* 998-1 apply. These are: - Reaction to fire (*EN* 13501-1) -



Compressive strength - Dry bulk density - Capillary water absorption - Water vapour permeability Further essential characteristics in accordance with the manufacturer's technical documentation/declaration of performance

Module 5.2: The minimum requirements of *EN 13279* apply. Further essential characteristics in accordance with the manufacturer's technical

documentation/declaration of performance

Module 6: Modified mineral mortars as grouts

The requirements of *DAfStb Guideline* on 'Production and use of cement-bound flow concrete and grouting mortar' (VeBMR) must be maintained.

The requirements according to *MVV TB* No. C 2.1.4.5 for "Ü-mark" must be maintained.

Module 7: Modified mineral mortars for liquid applied products for waterproofing of buildings 7.1

The requirements according to *EN 14891*, table 1, must be maintained. These are:

- initial tensile adhesion strength EN 14891

- Tensile adhesion strength after water contact EN 14891

- Waterproofing EN 14891

- Crack bridging ability EN 14891

7.2

The minimum requirements of the 'Testing principles for granting general building authority approved test certificates for waterproofing with mineral waterproofing slurries and flexible polymer modified thick coatings' (*PG MDS/FPD*) must be maintained. The characteristics for the proof of usability are to be specified in accordance with the test principles for granting general building authority test certificates for waterproofing with mineral waterproofing slurries and flexible polymer thick coatings.

7.3

The minimum requirements of the 'testing principles for granting general building authority approved test certificates for waterproofing in conjunction with ceramic tiles' (*PG AIV*) must be considered.

7.4

The minimum requirement of *EAD 030295-00-0605* must be maintained. The essential characteristics are to be specified in accordance with the European technical assessment (ETA, specification no.).

Module 8: Modified mineral mortars for waterproofing floors and/or walls inside buildings

The minimum requirement of *EAD 030352-00-0503* must be maintained. The essential characteristics are to be specified in accordance with the European technical assessment (ETA, specification no.).

Constructional data

| Name | Value | Unit |
|---------------------------------------------------------|-------|-------------------|
| Compressive strength | - | N/mm ² |
| Adhesive shear strength | - | N/mm ² |
| Water absorption | - | mg |
| Water vapor diffusion equivalent air layer thickness | - | m |
| Thermal conductivity | - | W/(mK) |
| Tensile bond strength | - | N/mm ² |
| Flexural strength | - | N/mm ² |
| Sound absorption coefficient (if relevant) | - | % |

2.4 Delivery status

Modified mineral mortars are generally manufactured and supplied as factory-made dry mortars. Factorymade dry mortar is a finished mixture of base materials which merely requires the addition of water and/or a polymer dispersion on the building site. The products can be supplied in 1-5 kg bags, 15-25 kg sacks, big bags (1 t), minitainers (1.2 t) or as silo goods (5-15 t). Paper sacks with polyethylene lining were modelled as packaging (worst-case approach).

2.5 Base materials/Ancillary materials

Typically, the products covered by this EPD contain the following range of base materials and auxiliaries (% by mass):

Inorganic binder: ~ 2 - 98 Filler materials: ~ 0 - 90 Additives: ~ 0 - 10

Aqueous dispersion and/or dispersion powder: ~ 0 - 35 $\,$

These ranges are average values and the composition of products complying with the EPD can deviate from these concentration levels in individual cases. More detailed information is available in the respective manufacturer's documentation (e.g. product data sheets).

Note: For companies to declare their products within the scope of this EPD it is not sufficient to simply comply with the product composition shown above. The application of this EPD is only possible for member companies of DBC, EFCC, FEICA, and IVK member associations and only for specific formulations with a total score below the declared maximum score for a product group according to the associated guidance document.

1. substances from the "Candidate List of Substances of Very High Concern for Authorisation" (SVHC)

If this product contains substances listed in the *candidate list* (latest version) exceeding 0.1 percentage by mass, the relevant information can be found in the safety data sheet of the relevant product covered by this model EPD.

2. CMR substances in categories 1A and 1B

If this product contains other carcinogenic, mutagenic, reprotoxic (CMR) substances in categories 1A or 1B which are not on the *candidate list*, exceeding 0.1 percentage by mass, the relevant information can be found in the safety data sheet of the relevant product covered by this model EPD.

3. Biocide products added to the construction product

If this construction product contains biocide products, the active substances, information on the concentration and/or concentration range, the product type together with information on their hazardous properties are listed in the safety data sheet of the respective product.

2.6 Manufacture

The raw materials are stored in silos, big bags or sacks in the manufacturing plant and fed gravimetrically in



accordance with the respective formula and mixed intensively. The mix is then packaged.

2.7 Environment and health during manufacturing

The state of the art involves maximum recirculation of dry waste into production. Wherever dust is incurred during production in the plant, it is directed to a filter system considering the limit values applicable for the workplace and using the corresponding extraction plants. Sack discharge stations connected to the extraction plant offer employees additional protection from dust. Most of the dust collected in the filter system and any residue incurred during production is returned to the manufacturing process.

Powder residues: Residual product is returned to the production process wherever possible.

Air: Process air is dedusted autonomously, whereby the values are far below legal requirements.

Water: The production process does not involve water. Very low volumes of water are required for laboratory tests and for sanitary facilities.

Noise: Noise level measurements have indicated that all values established within the production facility fall below the hearing protection limit of 85dB(A). **Waste:** The main types of waste are powder waste, paper (paper bags) and foil. Low volumes of metal scrap (metal containers), waste oil (maintenance), wood (pallets) and commercial waste are incurred. All waste is separated, stored and redirected to the recycling circuit or disposed of.

2.8 Product processing/Installation

Modified mineral mortars can be processed both automatically and manually. The mortars are either automatically removed from a silo using a dry conveyor or manually taken from the container, mixed with water and installed. The professional liability association's rules apply as well as the respective safety data sheets pertaining to the construction products. On account of the various hydrate levels of cement, lime and calcium sulphate binding agents in the mineral mortar, the fresh mortar mixed with water is usually strongly alkaline. In the case of more extensive contact, this alkaline state can cause serious damage to eyes and skin. Therefore, any contact with eyes or skin must be avoided by taking personal protective measures, and the information outlined on the safety data sheet must be observed. Uncontrolled dust emissions should be avoided. Modified mineral mortars may not be discharged into the sewage system, surface water or groundwater. Waste incurred on the building site (packaging, pallets, residual mortar) must be collected separately. Suitable waste disposal companies dispose of packaging materials and mortar sacks and return them to the recycling circuit. Dry mortar residue is taken back by the manufacturing plants and used as a raw material. No dry mortar residue in mortar sacks is incurred. Hard mortar residue can be recycled or disposed of as building site rubble.

2.9 Packaging

A detailed description of packaging is provided in section 2.4. Empty, trickle-free paper containers and clean PE foils can be recycled.

2.10 Condition of use

A modified mineral mortar does not rot and is resistant to ageing when used in accordance with the

designated purpose of the respective products. It is a durable product which, when used as adhesive, screed, waterproofing material or repair product, makes an essential contribution towards improving building function and value.

2.11 Environment and health during use

Owing to the stable crystalline bond and firm structure achieved after curing, emissions are extremely low and harmless to health when the respective products are used in accordance with the designated purpose. No risks are known for water, air and soil if the products are used as designated. Natural ionising radiation from mineral mortar is extremely low and negligible in terms of health hazards. Options for applications in indoor areas with permanent stays by people: Evidence of the emission performance of construction products in contact with indoor air and depending on the designated use must be submitted for applications in indoor areas with permanent stays by people, e.g. in accordance with the German AgBB test scheme or the GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V., Düsseldorf) EMICODE® marking system typically applied in Germany.

2.12 Reference service life

Modified mineral mortars decisively improve the usability of building structures and significantly extend their original service lives. The anticipated reference service life depends on the specific installation situation and the exposure associated with the product. It can be influenced by weathering as well as mechanical or chemical loads.

2.13 Extraordinary effects

Fire

In accordance with Commission Decision 94/611EC, modified mineral binding agents comprising finely distributed organic components must always be classified in reaction-to-fire class A1 'No contribution to fire' in accordance with *EN 13501-1*. Where higher percentages of organic components are involved, it can also be assumed that at least the requirements of *EN 13501-1* are maintained for fire class E and Efl.

Fire protection

| Name | Value |
|-------------------------|-------|
| Building material class | - |
| Burning droplets | - |
| Smoke gas development | - |

Water

No relevant volumes of water-soluble substances hazardous to water are washed out when hardened modified mineral mortars are exposed to water (e.g. flooding). Modified mineral mortar is stable in terms of structure and is not subject to any changes in form when exposed to water and drying. If non-hardened modified mineral mortars are exposed to water an increase of the pH will take place.

Mechanical destruction

The mechanical destruction of modified mineral mortars does not lead to any decomposition products which are harmful to the environment or health. Dust



incurred during de-construction should be avoided by taking the appropriate measures (e.g. humidification).

2.14 Re-use phase

Components manufactured using modified mineral mortars can usually be easily demolished. When a building is removed, the materials do not need to be treated as special waste; care should, however, be taken to ensure unmixed residual materials wherever possible. Modified mineral mortars can usually be redirected to normal building material recycling circuits. Re-use is generally in the form of recycled aggregate in building construction and civil engineering. No practical experience is currently available for reusing components comprising cementitious-based products after decommissioning.

2.15 Disposal

The portion of a modified mineral mortar applied to another construction product is rather low. These low

3. LCA: Calculation rules

3.1 Declared Unit

This EPD refers to the declared unit of 1 kg of modified mineral mortar, group 1; applied into the building with a density of 800 - 1,700 kg/m³ in accordance with the IBU *PCR part B* for Mineral Factory-Made Mortars. The results of the Life Cycle Assessment provided in this declaration have been selected from the product with the highest environmental impact (worst-case scenario).

Depending on the application, a corresponding conversion factor such as the density to convert volumetric use to mass must be taken into consideration.

The Declaration type is according to *EN 15804*: Cradle to gate with options, modules C1-C4, and module D (A1-A3, C, D) and additional modules (A4-A5).

Declared unit

| Name | Value | Unit | | | | |
|----------------|-------|-------------------|--|--|--|--|
| Declared unit | 1 | kg | | | | |
| Gross density | 800 - | kg/m ³ | | | | |
| Gloss defisity | 1700 | ку/ш | | | | |

3.2 System boundary

Modules A1, A2 and A3 are taken into consideration in the LCA:

- A1 Production of preliminary products

- A2 Transport to the plant

- A3 Production incl. provision of energy, production of packaging as well as auxiliaries and consumables and waste treatment

- A4 Transport to site

- A5 Installation, product applied into the building during A5 phase operations and packaging disposal. The end of life for the packaging material considered is described below:

-Incineration, for materials like plastic, wood and paper.

-C1-C2-C4-D

The building deconstruction (demolition process) takes place in the C1 module which considers energy generation and consumption of diesel and all the emissions connected with the fuel-burning process to amounts do not play a role when the construction product is disposed of. They do not interfere with the disposal/recycling of other components/building materials.

The following waste codes according to the European List of Waste (2000/532/EC) can apply: Mineral mortar: EWC 17 01 01 and EWC 10 13 14 Mineral filler and levelling compound: EWC 17 01 07 Calcium sulphate-based filler and levelling compound: EWC 17 08 02

2.16 Further information

More information is available on the manufacturer's product or safety data sheets and is available on the manufacturer's websites or on request. Valuable technical information is also available on the associations' websites.

run the machines. After the demolition, the product is transported to the end-of-life processing (C2 module) where all the impacts related to the transport processes are considered. For precautionary principle and as a worst-case scenario, landfilling is the only end-of-life scenario considered. This is modelled by the landfill process (module C4) where the product ends its life cycle.

Module D accounts for potential benefits that are beyond the defined system boundaries. Credits are generated during the incineration of packaging that is occurring in the A5 module.

3.3 Estimates and assumptions

For this EPD formulation and production data defined and collected by FEICA were considered. Production waste was assumed to be disposed of by landfilling as a worst case.

An average of paper sacks with polyethylene lining and wooden pallets was considered in the LCA.

3.4 Cut-off criteria

All raw materials submitted for the formulations and production data were taken into consideration. The manufacture of machinery, plant and other infrastructure required for the production of the products under review was not taken into consideration in the LCA.

Transport of packaging materials is excluded.

3.5 Background data

Data from the *GaBi 10* database SP40 (2020) was used as background data.

3.6 Data quality

Representative products were applied for this EPD and the product in the group displaying the highest environmental impact was selected for calculating the LCA results. The background datasets used are less than 4 years old.

Production data and packaging are based on details provided by the manufacturer. The formulation used for evaluation refers to a specific product.

The data quality of the background data is considered to be good.



3.7 Period under review

Representative formulations are valid for 2021.

3.8 Allocation

Mass allocation has been applied when primary data have been used and implemented into the LCA model.

3.9 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.

The GaBi 10 database SP40 (2020) was used.

4. LCA: Scenarios and additional technical information

Characteristic product properties

Information on biogenic carbon The packaging material contains biogenic carbon

content which is presented below.

Information on describing the biogenic Carbon Content at factory gate

| Name | Value | Unit |
|------------------------------------|--------|------|
| Biogenic Carbon Content in product | - | kg C |
| Biogenic Carbon Content in | 0.0194 | ka C |
| accompanying packaging | 0.013- | Ng O |

For the preparation of building life cycle assessments, it must be taken into account that in module A5 (installation in the building) the biogenic amount of CO_2 (0.0194 kg C *3.67 = 0.071 kg CO_2 -eq.) of the packaging bound in module A1-A3 is mathematically booked out.

Transport to the building site (A4)

| Name | Value | Unit |
|--------------------|---------|------|
| Transport distance | 1000 | km |
| Gross weight | 34 - 40 | t |
| Payload capacity | 27 | t |

Installation into the building (A5)

| Name | Value | Unit |
|----------------------------------------|--------|------|
| Other resources for packaging material | 0.055 | kg |
| Material loss | 0.01 | kg |
| Water consumption | 0.0003 | m³ |

Material loss considers the amount of product not used during the application phase into the building. This amount is 1 % of the product and, impacts related to the production of this part are assigned to the A5 module. This percentage is considered as waste to disposal and impacts of its end of life have been considered into the LCA model and declared in A5.

End of life (C1-C4)

| Name | Value | Unit |
|---------------------------------------|-------|------|
| Collected as mixed construction waste | 1.121 | kg |
| Landfilling | 1.121 | kg |
| | | |

The value above 1 kg is due to the use of water during the installation phase where 50 % of water evaporate while 50 % remain in the product.

5. LCA: Results

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; ND = MODULE OR INDICATOR NOT

| PROE | DUCT S | STAGE | CONST ON PRO STA | DCESS | | USE STAGE END OF LIFE STAGE S | | | END OF LIFE STAGE | | | | BENEFITS AN LOADS BEYOND THE SYSTEM BOUNDARIES | | | |
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| Raw material supply | Transport | Manufacturing | Transport from the gate to the site | Assembly | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse- Recovery- Recycling- potential |
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
| Х | Х | X | X | Х | ND | ND | MNR | MNR | MNR | ND | ND | Х | Х | ND | Х | Х |
| RESL | JLTS | OF TH | IE LCA | - EN | /IRON | MENT | AL IM | РАСТ | accor | ding t | o EN 1 | 5804+ | A2: 1 | kg of i | modif | ied mineral |
| | ar, gro | | | | | | | | | | | | | | | |
| Core lı | ndicator | r I | Unit | A | 1-A3 | | A4 | | A5 | | C1 | C | 2 | c | 24 | D |
| | | | 0 Ec1 | | | Er | | | | 0.4 | 25.4 | 4.00 | | 47 | 15.0 | 2 505 0 |
| | P-total P-fossil | | CO ₂ -Eq.] CO ₂ -Eq.] | | 8E-1 8E-1 | - |)6E-2)0E-2 | _ | 05E-1 06E-2 | | 2E-4 18E-4 | | 9E-2 3E-2 | | 1E-2)E-2 | -3.50E-2 -3.49E-2 |
| | biogenic | | <u>-02-еq.]</u> СО2-Еq.] | | 95E-2 | | 10E-2 16E-4 | | 0E-2 | | 8E-5 | | 3E-2 3E-4 | | <u>JE-2</u> 3E-5 | -3.49E-2 -8.21E-5 |
| | P-luluc | | CO ₂ -Eq.] | | 3E-4 | | 05E-4 | | 2E-6 | | 7E-9 | | 3E-7 | | 9E-5 | -2.45E-5 |
| 0 | DP | [kg Cf | -C11-Eq.] | | 1E-11 | - | 1E-18 | 2.8 | 1E-13 | 3.1 | 8E-20 | 1.39 | E-18 | | E-17 | -3.66E-16 |
| | λP | | IH⁺-Eq.] | | 0E-3 | | 50E-4 | | 0E-5 | 4.0 | 4E-6 | | 9E-5 | | 2E-4 | -4.90E-5 |
| | shwater | | P-Eq.] | | 6E-7 | | 52E-7 | | 9E-8 | | 5E-11 | | 1E-9 | | 2E-8 | -4.52E-8 -1.27E-5 |
| | narine rrestrial | | N-Eq.] | | 5E-4 '2E-3 | | 38E-5 18E-4 | | 3E-6 4E-4 | | 3E-6 1E-5 | | 2E-5 2E-4 | | 4E-5 5E-4 | -1.27E-5 -1.36E-4 |
| | DCP | _ | ////////////////////////////////////// | | 3E-3 | | 32E-4 | | 4 <u>∟-</u> 4 3E-5 | | 51E-6 | |)E-5 | | 1E-5 | -1.30L-4 -3.64E-5 |
| | DPE | | Sb-Eq.] | | 4E-8 | | 59E-9 | | 2E-10 | | 3E-12 | | E-10 | | 3E-9 | -5.74E-9 |
| AL | ADPF | | [MJ] | | 9.91E+0 | | 6E-1 | 1.2 | 4E-1 | 4.2 | 7E-3 | 1.86 | 6E-1 | | 3E-1 | -5.92E-1 |
| | DPF | | livij | 0.0 | 10.0 | - | | | | | | 2.58E-5 | | | | |
| AE W | /DP | [m³ v de P = Glob | vorld-Eq prived] al warmin on potentia | 8.7 g potent al; POCF | '9E-2 ial; ODP P = Forma | 4.4 = Deplet ation pot | 17E-4 tion poter ential of t | 2.4 ntial of the roposphe | eric ozon | heric oz e photoc | hemical | ; AP = Ac oxidants; | cidificatio ADPE = | l n potentia Abiotic d | epletion | -3.63E-3 d and water; EP potential for non |
| AI W Captio | /DP n GWF Eutr | [m³ v de P = Glob ophicatio OF TH | world-Eq prived] al warmin on potentia fossil re | 8.7 g potent al; POCF esources | '9E-2 ial; ODP P = Forma s; ADPF = ICATO | 4.4 = Deplet ation pot = Abiotic | 17E-4 tion poter ential of t depletior | 2.4 ntial of the roposphe n potentia | e stratosp eric ozon al for foss | heric oz e photoc sil resourc | one layer hemical o ces; WDF | ; AP = Ac oxidants; P = Water | cidificatio ADPE = (user) d | l n potentia Abiotic d eprivatio | al of land epletion n potenti | d and water; EP potential for non |
| AL W Captio RESU | /DP n GWF Eutr JLTS fied n | [m³ v de P = Glob ophicatio OF TH | world-Eq prived] al warmin on potentia fossil re IE LCA | 8.7 g potent al; POCF esources - IND ar, gro | '9E-2 ial; ODP P = Forma s; ADPF = ICATO | 4.4 = Deplet ation pot = Abiotic DRS T | 17E-4 tion poter ential of t depletior | 2.4 ntial of the roposphe n potentia | e stratosp eric ozon al for foss | heric oz e photoc sil resourc | one layer hemical o ces; WDF | ; AP = Ac oxidants; P = Water | cidificatio ADPE = (user) d | l n potentia Abiotic d eprivatio | al of land epletion n potenti | I and water; EP potential for nor al |
| AL W Captio RESU nodif Indica PER | /DP GWF Eutr JLTS fied n tor | [m ³ v de P = Glob rophicatio OF TH ninera | world-Eq prived] al warmin on potentia fossil re IE LCA I morta A1-A 9.81E | 8.7 g potent al; POCF esources - IND ar, gro 3 -1 | 9E-2 ial; ODP = P = Forma ; ADPF = ICATO oup 1 A 3.74 | 4.4 = Deplet ation pot = Abiotic DRS T A | 47E-4 tion poter ential of t depletior O DES | 2.4 ntial of the roposphe potentia | e stratosp eric ozon al for foss E RES | oheric oz e photoc sil resourc OURC C1 1.35E-5 | one layer hemical o ces; WDF | ; AP = Ac oxidants; P = Water accor | cidificatio ADPE = (user) d | n potentia Abiotic d eprivation | al of land epletion n potenti 15804 | d and water; EP potential for nor al +A2: 1 kg o |
| AI W Captio RESU nodif Indica PER PER | /DP GWI Eutr JLTS fied n tor | [m³ \u03c6 P = Glob ophicatic OF Th ninera Unit [MJ] | world-Eq prived] al warmin on potentia fossil re IELCA I morta A1-A 9.81E 7.21E | 8.7 g potent al; POCF esources - IND ar, gro 3 -1 -1 | '9E-2 ial; ODP = Forma s; ADPF = ICATC oup 1 A 3.74 0.00 | 4.4 = Deplet ation pot = Abiotic DRS TO A HE-2 E+0 | 17E-4 tion poter ential of t depletior O DES | 2.4 atial of the roposphe potentia CRIBI A5 42E-1 21E-1 | e stratosp eric ozon al for foss E RES | oheric oz e photoc sil resourc OURC C1 1.35E-5 0.00E+0 | one layer hemical o ces; WDF | AP = Ac pxidants; AP = Ac p = Water accor c2 5.88E-4 0.00E+0 | cidificatio ADPE = (user) d ding 1 | n potentia Abiotic d eprivation o EN ⁻ C4 2.92E- 0.00E+ | al of land epletion n potenti 15804 -2 +0 | d and water; EP potential for nor al +A2: 1 kg o D -1.30E-1 0.00E+0 |
| AI W Captio RESU nodif Indica PER PER | /DP GWI Eutr fied n tor | [m³ v de P = Glob ophication OF TH ninera Unit [MJ] [MJ] | world-Eq prived] al warmin on potentia fossil re 1E LCA 1 morta A1-A 9.81E 7.21E 1.70E | 8.7 g potent al; POCF esources - IND ar, gro 3 -1 -1 +0 | 9E-2 ial; ODP P = Forma s; ADPF = ICATO up 1 A 3.74 0.00 3.74 | 4.4 = Deplet ation pot = Abiotic DRS T #E-2 E+0 #E-2 | ion poter ential of t depletion O DES | 2.4 tital of the roposphe potentia CRIBI A5 42E-1 21E-1 15E-2 | e stratosperic ozon al for foss E RES | bheric oz e photoc sil resourc OURC C1 1.35E-5 0.00E+0 1.35E-5 | one layer hemical o ces; WDF | AP = Ac pxidants; . P = Water accor C2 5.88E-4 0.00E+0 5.88E-4 | cidificatio ADPE = (user) d ding 1 | n potentia Abiotic d eprivation O EN ⁻ C4 2.92E- 0.00E+ 2.92E- | al of lance epletion n potenti 15804 -2 -2 +0 -2 | d and water; EP potential for nor al +A2: 1 kg c D -1.30E-1 0.00E+0 -1.30E-1 |
| AI W Captio Captio CESU Indica PER PER PER | /DP GWF n Eutr JLTS fied n tor 1 E 1 M 1 RE | [m³ v de P = Glob ophication OF TH ninera Unit [MJ] [MJ] | world-Eq prived] al warmin on potentia fossil re IE LCA I morta A1-A 9.81E 7.21E 1.70E 8.86E | 8.7 g potent al; POCF esources - IND ar, gro 3 -1 -1 +0 +0 | 9E-2 ial; ODP P = Forma ;; ADPF = ICATC up 1 A 3.74 0.00 3.74 6.67 | 4.4 = Deplet ation pot = Abiotic DRS T #E-2 E+0 #E-2 7E-1 | ion poter ential of t depletior O DES 7. -7. 2. 2. | 2.4 titial of the roposphe potentia CRIBI 42E-1 21E-1 15E-2 01E-1 | e stratosperic ozon al for foss E RES | Deheric oz e photoco sil resource OURC 0URC 1.35E-5 0.00E+0 1.35E-5 4.28E-3 | one layer hemical o ces; WDF | Image: Constraint of the second se | rding 1 | n potentia Abiotic d eprivation O EN ² 2.92E 0.00E 2.92E 2.23E | al of lance epletion n potenti 15804 -2 -2 -2 -2 -1 | d and water; EP potential for nor al +A2: 1 kg c D -1.30E-1 0.00E+0 -1.30E-1 -5.92E-1 |
| AI W Captio RESU nodif Indica PER PER | IDP GWF Eutr JLTS fied n tor b E M T RE RE | [m³ v de P = Glob ophication OF TH ninera Unit [MJ] [MJ] | world-Eq prived] al warmin on potentia fossil re 1E LCA 1 morta A1-A 9.81E 7.21E 1.70E | 8.7 g potent al; POCF esources - IND ar, gro 3 -1 -1 +0 +0 +0 | 9E-2 ial; ODP P = Forma s; ADPF = ICATO up 1 A 3.74 0.00 3.74 | 4.4 = Deplet ation pot = Abiotic DRS TO A HE-2 E+0 HE-2 TE-1 E+0 E+0 | ion poter ential of t depletior O DES 7. 7. 2. 2. 8. | 2.4 tital of the roposphe potentia CRIBI A5 42E-1 21E-1 15E-2 | e stratosperic ozon al for foss E RES | bheric oz e photoc iil resourc OURC C1 1.35E-5 0.00E+0 1.35E-5 4.28E-3 0.00E+0 | one layer hemical o ces; WDF | AP = Ac pxidants; . P = Water accor C2 5.88E-4 0.00E+0 5.88E-4 | rding 1 | n potentia Abiotic d eprivation o EN * 2.92E 0.00E+ 2.92E 2.23E 0.00E+ 2.23E | al of lance epletion n potenti 15804 -2 -0 -2 -1 +0 -2 -1 +0 -1 | d and water; EP potential for nor al +A2: 1 kg o D -1.30E-1 0.00E+0 -1.30E-1 |
| AI W Captio RESU nodif Indica PER PER PENF PENF | IDP | [m³ \de de P = Glob ophicatic OF Th ninera Unit [MJ] [MJ] [MJ] [MJ] | world-Eq prived] al warmin on potentia fossil re IELCA I morta A1-A 9.81E 7.21E 1.70E 8.86E 1.05E | 8.7 g potent al; POCF esources - IND ar, gro 3 -1 -1 -1 +0 +0 +0 +0 | 9E-2 ial; ODP P = Forma ; ADPF = ICATC oup 1 A 3.74 0.00 3.74 6.67 0.00 | 4.4 = Deplet ation pot = Abiotic DRS TO RS TO # = = = = = = = = = = = = = = = = = = | ion poter ential of t depletion O DES 7. -7. -2. -2. -8. -8. -1. | 2.4 titial of the roposphe potentia CRIBI 42E-1 21E-1 15E-2 01E-1 66E-2 | e stratosperic ozon al for foss E RES | Diheric oz e photoc sil resource OURC 0URC 1.35E-5 0.00E+0 1.35E-5 4.28E-3 | one layer hemical o ces; WDF | Image: Control Contro Control Control Contron Control Control Control Control Control C | rding 1 | n potentia Abiotic d eprivation o EN 2 2.92E 0.00E 2.92E 2.23E 0.00E | al of lance epletion n potenti 15804 -2 -0 -2 -1 +0 -2 -1 +0 -1 | d and water; EP potential for nor al +A2: 1 kg o -1.30E-1 0.00E+0 -1.30E-1 -5.92E-1 0.00E+0 |
| AI W Captio RESU nodif Indica PER PERF PENF PENF PENF SM RSF | /DP JLTS fied n tor 1 E 1 M 1 T 1 RE 1 RM 1 RT 1 | [m³\/de P = Glob ophicatic OF TH ninera Unit [MJ] | vord-Eq prived] al warmin on potentia fossil re iE LCA i morta A1-A 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E | 8.7 g potent al; POCF esources - IND ar, gro 3 -1 -1 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 | 9E-2 ial; ODP = Forma ; ADPF = ICATC oup 1 A 3.74 6.67 0.00 6.67 0.00 0.00 | 4.4 = Deplet ation pot = Abiotic DRS TO A HE-2 E+0 HE-2 TE-1 E+0 TE-1 E+0 E+0 E+0 | ITE-4 ion poter ential of t depletior O DES 7. 7. 2. 2. 2. 8. 1. 0.0. 0.0. | 2.4 titial of the roposphe potential CRIBI 42E-1 21E-1 15E-2 01E-1 66E-2 14E-1 10E+0 00E+0 00E+0 | e stratosperic ozon al for foss E RES | Image: line source objeric oz e photocc e photocci ource OURC 1.35E-5 0.00E+0 1.35E-5 0.00E+0 4.28E-3 0.00E+0 0.00E+0 4.28E-3 0.00E+0 0.00E+0 | one layer hemical o ces; WDF | ; AP = Ac ; AP = Ac xidants; ? = Water accor 5.88E-4 0.00E+0 5.88E-4 1.87E-1 0.00E+0 0.87E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 | rdificatio ADPE = (user) d ding 1 | n potenti. Abiotic d eprivation o EN 2 2.92E 0.00E 2.92E 2.23E 0.00E 2.23E 0.00E | al of lance epletion n potenti 15804 -2 -2 -2 -2 -1 +0 -1 +0 -1 +0 -1 +0 -1 +0 -1 +0 -2 -1 +0 -2 -1 +0 -2 -1 +0 -2 -2 -1 -1 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 | d and water; EP potential for nor al +A2: 1 kg c D -1.30E-1 0.00E+0 -5.92E-1 0.00E+0 0.00E+0 0.00E+0 |
| AI W Captio Captio RESL Indica PER PER PER PER PER SM SM SM SM SM SM SM | /DP JLTS fied n tor l E M T RE SM F F | [m³\/de P = Glob ophicatic OF Th ninera Unit [MJ] | vord-Eq prived] al warmin on potentia fossil re IE LCA I morta A1-A 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E 0.00E | 8.7 g potent al; POCF esources 3 -1 -1 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 | 9E-2 al; ODP = Forma ; ADPF = ICATC up 1 A 3.74 0.00 3.74 6.67 0.00 6.67 0.00 0.00 0.000 0.000 | 4.4 = Deplet ation pot = Abiotic DRS TO A HE-2 E+0 HE-2 FE-1 E+0 FE-1 E+0 E+0 E+0 E+0 E+0 E+0 E+0 | ITE-4 ion poter ential of t depletion O DES 77. 77. 2. -8. 1. 0.0.0 0.0.0 | 2.4 titial of the roposphe potentia CRIBI 42E-1 21E-1 15E-2 01E-1 66E-2 14E-1 16E-2 14E-1 00E+0 00E+0 00E+0 | e stratosperic ozon eric o | Image: Constraint of the second of | one layer hemical o ces; WDF | ; AP = Ac ; AP = Ac xidants; ? = Water accor 5.88E.4 0.00E+0 5.88E.4 0.00E+0 1.87E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 | rdificatio ADPE = (user) d rding 1 | n potentii Abiotic d eprivatio O EN 2 2.92E 0.00E 2.92E 2.23E 0.00E 2.23E 0.00E 0.00E 0.00E | al of lance epletion n potenti 15804 -2 -2 -4 -0 -2 -1 -1 +0 +0 +0 +0 +0 +0 | d and water; EP potential for nor al +A2: 1 kg c D -1.30E-1 0.00E+0 -1.30E-1 -5.92E-1 0.00E+0 -5.92E-1 0.00E+0 0.00E+0 0.00E+0 |
| AI W Captio Captio RESL nodii Indica PER PER PER PENF PENF PENF PENF SM RSF VRS SM Captio | /DP GWF Eutr JLTS fied n tor I E M T T R M T F I F I F I F I F I F I F I F I F I F I F I F I I F I I I I I I I I I I I I I | [m³] P = Glob ophicatic OF Th ninera Unit [MJ] [M] [M] [M] [M] [M] [M] [M] [m³] PERE = wable pi pon-rene wable pi cond-rene wable pi cond-rene wable pi cond-rene wable pi cond-rene wable pi wable pi picon-rene wable picon-rene wa | vord-Eq prived] al warmin on potentia fossil re IE LCA I morta A1-A 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E | 8.7 g potenti al; POCF essources - IND ar, gro 3 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; +0; ;; RSF = | 9E-2 al; ODP = Forma ; ADPF = ICATO up 1 A 3.74 0.00 3.74 6.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.4 = Deplet ation pot = Abiotic DRS TO A HE-2 E+0 HE-2 E+0 HE-2 TE-1 E+0 E+0 E+0 E+0 E+0 E+0 E+0 E+0 | ITE-4 ion poter ential of t depletion O DES 0 D | A5 42E-1 21E-1 15E-2 01E-1 66E-2 14E-1 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 mg renew erials; P wable p eerials; P wable p eerials; P | e stratosperic ozon al for foss RES RES RES RES CO CO CO CO CO CO CO CO CO CO CO CO CO | C1 000000000000000000000000000000000000 | ergy rese of renew sources of non-r | AP = Ac sxidants; P = Water accor 5.88E-4 0.00E+0 5.88E-4 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0 | eidificatio ADPE = (user) d d d d d d d d d d d d d d d d d d d | n potenti Abiotic de eprivation O EN 2.92E 0.00E- 2.92E 2.23E 0.00E- 2.23E 0.00E- 0.00E- 0.00E- 0.00E- 0.00E- 0.00E- 0.00E- 0.00E- 3.63E aw mate ergy ress erials; P ary ener Jary fuel | al of lance epletion n potenti 15804 -2 -2 -4 -0 -2 -2 -1 -1 -1 -0 -2 -1 -1 -1 -0 | d and water; EP potential for nor al +A2: 1 kg o -1.30E-1 0.00E+0 -1.30E-1 -5.92E-1 0.00E+0 -5.92E-1 0.00E+0 0.00E+0 0.00E+0 -1.50E-4 ERM = Use of PENRE = Use Use of non- urces; SM = Us Use of net fres |
| AL W Captio RESL Indica PERF PERF PENF SM RSF PENF SM RSF EV Captio | JLTS fied n tor tor tor tor tor tor tor tor tor tor | [m³\/de P = Glob ophicatic OF Th ninera Unit [MJ] [MJ] [MJ] [MJ] [MJ] [MJ] [MJ] [MJ] [MJ] [M] condary OF Th odified | vord-Eq prived] al warmin on potentia fossil re iE LCA I morta A1-A 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E | 8.7 g potent al; 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EP potential for nor al +A2: 1 kg o D -1.30E-1 0.00E+0 -1.30E-1 -1.30E-1 -5.92E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 SRM = Use of PENRE = Use Use of non- urces; SM = Us Use of net fres +A2: |
| AL W Captio Captio Indica PER PENF PENF PENF SM RSF SM RSF FW Captio | JLTS fied n tor tor tor n F 1 F 1 F 1 T 1 F 1 T 1 F 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T | [m³ \ de P = Glob ophicatic OF Th ninera Unit [MJ] [M] [M] [M] [M] [M] [M] [M] [m³] PERE = wable plate pacondary OF Th dified Unit | world-Eq prived] al warmin on potentia fossil re is LCA is LCA is LCA 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 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| AE W Captio Captio Indica PER PENF PENF PENF SM RSF FW Captio | JLTS fied n tor tor tor tor tor tor tor tor tor tor | [m³\de P = Glob ophicatic OF Th ninera Unit [MJ] [M] [M] </td <td>vord-Eq prived] al warmin on potentia fossil re iE LCA I morta A1-A 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E</td> <td>8.7 g potent al; 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P wable p erials; P wable p erials; P dary fue S AND 60E-7 44E-2</td> <td>e stratosperic ozon al for foss E RES E RES Value print ERT = T rimary en ENRT = ENRT = Swate O OUTI</td> <td>Image: constraint of the photococ obleric oz e photococ il resourd OURC 1.35E-5 0.00E+0 1.35E-5 0.00E+0 1.35E-5 0.00E+0 0.0</td> <td>ergy rese of renew sources of non-r</td> <td>AP = Ac ; AP = Ac pxidants; ; = Water accor 5.88E.4 0.00E+0 5.88E.4 0.00E+00 0.</td> <td>cidificatio ADPE = (user) d rding 1 </td> <td>n potentia Abiotic d eprivation o EN 2 2.92E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.0</td> <td>al of lanc epeletion n potenti 15804 -2 +0 -2 -2 -1 +0 -1 -1 +0 -1 -1 +0 -1 -1 +0 -1 -1 +0 -1 -1 +0 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5</td> <td>d and water; EP potential for nor al +A2: 1 kg c -1.30E-1 0.00E+0 -1.30E-1 -1.30E-1 -1.30E-1 -1.30E-1 -5.92E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 -1.50E-4 ERM = Use of PENRE = Use Use of non- urces; SM = Us Use of net free +A2: D -2.36E-10 -2.74E-4</td> | vord-Eq prived] al warmin on potentia fossil re iE LCA I morta A1-A 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E | 8.7 g potent al; 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| AE W Captio Captio Indica PER PER PENF PENF SM RSF FW Captio | JLTS fied n tor l E l M l E l M l E l M l E l F l F l F l F l F l F l F l F | [m³\ de P = Glob ophicatic OF Th ninera Unit [MJ] [M] | world-Eq prived] al warmin on potentia fossil re is LCA I morta A1-A 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 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00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 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potential for nor al +A2: 1 kg c D -1.30E-1 0.00E+0 -1.30E-1 -5.92E-1 0.00E+0 -5.92E-1 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 -1.50E-4 ERM = Use of PENRE = Use = Use of non- urces; SM = Us Use of net free +A2: D -2.36E-10 |
| AE W Captio Indica PER PENF PENF SM RSF NRS FW Captio | JLTS Fied n tor l E J M J T J R M J T J R M J T J R T J F J F J T R R T S S T S S S S S S S S S S S S S S | [m³\de P = Glob ophicatic OF Th ninera Unit [MJ] [M] [M] </td <td>world-Eq prived] al warmin on potentia fossil re iE LCA I morta A1-A 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E</td> <td>8.7 g potent al; POCF essources - IND ar, gro 3 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1</td> <td>9E-2 ial; ODP P = Forma ; ADPF = ICATO pup 1 A 3.74 0.00 3.74 6.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00</td> <td>4.4 = Deplet ation pot = Abiotic DRS TO A E=2 E=0 E=2 E=1 E=0 E=0 E=0 E=0 E=0 E=0 E=0 E=0</td> <td>ITE-4 ion poter ential of t depletion O DES 7. 7. 7. 7. 2. 2. 8. 8. 1. 0.0. 0.0. 0.0. 0.0. 0.0. 0.0.</td> <td>2.4 titial of the roposphe potentia CRIBI 42E-1 21E-1 15E-2 01E-1 66E-2 14E-1 20E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+00</td> <td>e stratosperic ozon al for foss E RES E RE</td> <td>Image: constraint of the photococ obleric oz e photococ il resourd OURC 1.35E-5 0.00E+0 1.35E-5 0.00E+0 1.35E-5 0.00E+0 0.0</td> <td>ergy rese of renew sources of non-r</td> <td>AP = Ac ; AP = Ac xidants; ? = Water accor 5.88E-4 0.00E-0 5.88E-4 0.00E-10 5.88E-4 0.00E-10 5.88E-4 0.00E-10 1.87E-1 0.00E-10 0.00E-10 0.00E-10 1.05E-6 Durces us vable prinused as -renewa enewable accor C2 1.87E-11 1.91E-5 2.00E-7</td> <td>cidificatio ADPE = (user) d (user) d (u</td> <td>n potentia Abiotic d eprivation o EN 2 2.92E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 2.23E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.0</td> <td>al of lanc expletion n potenti 15804 -2 -2 -0 -2 -2 -1 -1 -0 -2 -2 -1 -1 -0 -2 -2 -1 -1 -0 -2 -2 -1 -1 -0 </td> <td>d and water; EP potential for nor al +A2: 1 kg c -1.30E-1 0.00E+0 -1.30E-1 -5.92E-1 0.00E+0 -5.92E-1 0.00E+0 0.00E+0 0.00E+0 -1.50E-4 ERM = Use of PENRE = Use Use of non- urces; SM = Us Use of net fres +A2: D -2.36E-10 -2.74E-4 -4.43E-5</td> | world-Eq prived] al warmin on potentia fossil re iE LCA I morta A1-A 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E 0.00E | 8.7 g potent al; POCF essources - IND ar, gro 3 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 | 9E-2 ial; ODP P = Forma ; ADPF = ICATO pup 1 A 3.74 0.00 3.74 6.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.4 = Deplet ation pot = Abiotic DRS TO A E=2 E=0 E=2 E=1 E=0 E=0 E=0 E=0 E=0 E=0 E=0 E=0 | ITE-4 ion poter ential of t depletion O DES 7. 7. 7. 7. 2. 2. 8. 8. 1. 0.0. 0.0. 0.0. 0.0. 0.0. 0.0. | 2.4 titial of the roposphe potentia CRIBI 42E-1 21E-1 15E-2 01E-1 66E-2 14E-1 20E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+00 | e stratosperic ozon al for foss E RES E RE | Image: constraint of the photococ obleric oz e photococ il resourd OURC 1.35E-5 0.00E+0 1.35E-5 0.00E+0 1.35E-5 0.00E+0 0.0 | ergy rese of renew sources of non-r | AP = Ac ; 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| AL W Captio Captio Captio PER PENF PENF SM RSF PENF SM RSF Captio Captio Captio Captio Captio Captio CAL MER MER | JLTS fied ILTS fied ILTS fied ILTS fied ILTS fied ILTS fied ILTS ILTS | [m³ \ de P = Glob ophicatic OF Th ninera Unit [MJ] [M] [M] </td <td>vord-Eq prived] al warmin on potentia fossil re is LCA is LCA 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E 0.00E 0.00E 2.46E Use of re rimary en wable pri rimary en wable pri rimary en wable pri rimary en trimary en trimary</td> <td>8.7 g potent al; POCF essources ar, gro ar, gro 3 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1</td> <td>9E-2 al; ODP = Forma ; ADPF = ICATO oup 1 A 3.74 0.00 3.74 6.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0</td> <td>4.4 = Deplet ation pot = Abiotic DRS T = Abiotic DRS T = Abiotic DRS T = Abiotic DRS T = Abiotic DRS T = Abiotic = A</td> <td>ATE-4 ion poter ential of t depletion O DES 0 DE</td> <td>2.4 tital of the roposphe potentia CRIBI 42E-1 21E-1 15E-2 01E-1 15E-2 01E-1 15E-2 01E-1 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 SANE SANE SANE A5 60E-7 44E-2 74E-6 60E-7 44E-2 74E-6 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0</td> <td>e stratosperic ozon al for foss E RES E RE</td> <td>Image: constraint of the second sec</td> <td>ergy rese of renew sources of non-r</td> <td>Image: AP = Aconsidents; 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EP potential for nor al +A2: 1 kg c D -1.30E-1 0.00E+0 -1.30E-1 -5.92E-1 0.00E+0 -5.92E-1 0.00E+0 -5.92E-1 0.00E+0 0.00E+0 -1.50E-4 ERM = Use of PENRE = Use = Use of non- urces; SM = Us Use of non- trees; SM = Use Use of non- trees; SM = Use of trees; SM = Use of</td> | vord-Eq prived] al warmin on potentia fossil re is LCA is LCA 9.81E 7.21E 1.70E 8.86E 1.05E 9.91E 0.00E 0.00E 0.00E 2.46E Use of re rimary en wable pri rimary en wable pri rimary en wable pri rimary en trimary | 8.7 g potent al; POCF essources ar, gro ar, gro 3 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 | 9E-2 al; ODP = Forma ; ADPF = ICATO oup 1 A 3.74 0.00 3.74 6.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 4.4 = Deplet ation pot = Abiotic DRS T = Abiotic DRS T = Abiotic DRS T = Abiotic DRS T = Abiotic DRS T = Abiotic = A | ATE-4 ion poter ential of t depletion O DES 0 DE | 2.4 tital of the roposphe potentia CRIBI 42E-1 21E-1 15E-2 01E-1 15E-2 01E-1 15E-2 01E-1 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 SANE SANE SANE A5 60E-7 44E-2 74E-6 60E-7 44E-2 74E-6 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 00E+0 | e stratosperic ozon al for foss E RES E RE | Image: constraint of the second sec | ergy rese of renew sources of non-r | Image: AP = Aconsidents; 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| | RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: I kg of modified mineral mortar, group 1 | | | | | | | | |
|-----------|----------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|-------------------|-------------------|--------------------|--------------------|-------------------|--|
| Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C4 | D | |
| PM | [Disease Incidence] | ND | ND | ND | ND | ND | ND | ND | |
| IRP | [kBq U235- Eq.] | ND | ND | ND | ND | ND | ND | ND | |
| ETP-fw | [CTUe] | ND | ND | ND | ND | ND | ND | ND | |
| HTP-c | [CTUh] | ND | ND | ND | ND | ND | ND | ND | |
| HTP-nc | [CTUh] | ND | ND | ND | ND | ND | ND | ND | |
| SQP | [-] | ND | ND | ND | ND | ND | ND | ND | |
| P | M = Potentia | al incidence of dis | ease due to PM e | missions: IR = Po | tential Human exp | osure efficiency r | elative to U235: E | TP-fw = Potential | |

Caption PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil guality index

Comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index Potential Human exposure efficiency relative to U235, Disclaimer 1 – This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and (from) some construction materials is also not measured by this indicator.

ADP minerals & metals, ADP fossil, WDP, ETF-fw, HTP-c, HTP-nc, SQP, Disclaimer 2 – The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

Additional environmental impact indicators (suggested by *EN15804*, table 4) are not declared in the EPD. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high and as there is limited experience with the indicator (see ILCD classification in *EN 15804*, table 5). For this reason, results based on these indicators are not considered suitable for a decision-making process and are thus not declared in the EPD.

6. LCA: Interpretation

The majority of impacts are associated with the production phase (A1-A3). The most significant contribution to the production phase impacts is the upstream production of raw materials as the main driver. Besides the cement also the dispersion powder influences the results significantly, although this is only used for up to 8 % of the total composition. Significant contributions to Primary Energy Demand - Nonrenewable (PENRT) derive from the energy resources used in the production of raw materials. The largest contributor to Primary Energy Demand - Renewable (PERT) is the consumption of renewable energy resources required for the generation and supply of electricity. During manufacturing (A1-A3) some influence also arises due to the wooden pallets and paper used as packaging that need solar energy for photosynthesis. It should be noted that Primary Energy Demand – Renewable (PERT) generally represents a small percentage of the production phase primary energy demand with the bulk of the demand coming from non-renewable energy resources.

7. Requisite evidence

Leaching

Special tests and evidence have not been carried out or provided within the framework of drawing up this Model EPD. Some member states require special documentation on leaching for specific areas of application. This documentation has to be provided separately and is specific to the product in question. In all EPDs, CO_2 is the most important contributor to Global Warming Potential (GWP). For the Acidification Potential (AP), NOx and SO₂ contribute the largest share.

Transportation to the construction site (A4) and the installation process (A5) make a minor contribution to almost all impacts. The only exception is a relevant influence of carbon dioxide emissions in module A5 to Global Warming Potential (GWP) due to the incineration of the packaging materials plastic, paper and pallets.

In module A4, transport to construction site, values for Eutrophication (freshwater, marine and terrestrial) have an impact due principally to the emission of phosphate. Furthermore, climate change from land use change is influenced by transport processes, due to the diesel production used as fuel, because part of this diesel has been produced from bio-based raw materials.

The end-of-life phases have a negligible influence on all impacts.

If of relevance for the application (usually if the products are used outside of buildings) the leaching behaviour has to be measured e.g. according to *DIN EN 12457/1--4* or *DIN EN 14405* combined with the Council decision 2003/33/EC.

8. References



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EN 1015-17

EN 1015-17:2005-01, Methods of test for mortar for masonry – Part 17: Determination of water-soluble chloride content of fresh mortars

EN 1504-3

EN 1504-3:2005-12, Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity – Part 3: Structural and non-structural repair

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EN 1542

EN 1542:1999-07, Products and systems for the protection and repair of concrete structures – Test methods – Measurement of bond strength by pull-off

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EN 12004-2

EN 12004-2:2017, Adhesives for ceramic tiles - Part 2: Test methods

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DIN EN 12457-1

DIN EN 12457-1:2003-01, Characterization of waste -Leaching; Compliance test for leaching of granular and sludges - Part 1: One stage batch test at a liquid to solid ration of 2 I/kg with particle size below 4 mm (without or with size reduction)

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DIN EN 12457-2:2003-01, Characterization of waste -Leaching; Compliance test for leaching of granular and sludges - Part 2: One stage batch test at a liquid to solid ratio of 10 l/kg with particle size below 4 mm (without or with size reduction)

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DIN EN 12457-3:2021-03, Characterization of waste -Leaching - Compliance test for leaching of granular waste materials and sludges - Part 3: Two stage batch test at a liquid to solid ratio of 2 l/kg and 8 l/kg for materials with high solid content with particle size below 4 mm (without or with size reduction)

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EN 13279

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EN 13501-1

EN 13501-1:2018, Fire classification of construction products and building products – Part 1: Classification using data from reaction to fire tests

EN 13813

EN 13813:2002-10, Screed material and floor screeds – Screed materials – Properties and requirements

EN 13888

EN 13888:2009, Grout for tiles – Requirements, evaluation of conformity, classification and designation

EN 13892-8

EN 13892-8:2003-02, Methods of test for screed materials – Part 8: Determination of bond strength

ISO 14025

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

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DIN EN 14405:2017-05, Characterization of waste -Leaching behaviour test - Up-flow percolation test (under specified conditions)

EN 14891

EN 14891:2012-04, Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives – Requirements, test methods, evaluation of conformity, classification and designation

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EN 15183:2006-11, Products and systems for the protection and repair of concrete structures – Test methods – Corrosion protection test

EN 15804

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EAD 030295-00-0605

EAD 030295-00-0605, Flexible polymer modified mineral thick coating

EAD 030352-00-0503

EAD 030352-00-0503:2019:01, Liquid applied watertight covering kits for wet room floors and/or walls

EAD 040083-00-0404

EAD 040083-00-0404:2013, External Thermal Insulation Composite Systems with Rendering

96/603/EC

Commission decision of 4 October 1996 for specifying a directory of products to be classified as category A "No contribution to fire" in accordance with decision 94/611/EC on construction products for implementing Article 20 of Directive 89/106/EEC

2000/532/EC



Commission decision dated 3 May 2000 replacing decision 94/3/EC on a waste directory in accordance with Article 1 a) of Council Directive 75/442/EEC on waste and Council decision 94/904/EC on a directory of hazardous waste in terms of Article 1, paragraph 4 of Directive 91/689/EEC on hazardous waste

2003/33/EC:

Council Decision of 19 December 2002 establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of and Annex II to Directive 1999/31/EC

Candidate list

Candidate List of substances of very high concern for Authorisation, published in accordance with Article 59(10) of the REACH Regulation, ECHA, www.echa.europa.eu/candidate-list-table

CPR

CPR Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC

DAfStb Guideline

DAfStb Guideline on 'Production and use of cementbound flow concrete and grouting mortar' (VeBMR), 2019-07

Decopaint Directive

Directive 2004/42/CE of the European Parliament and the council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC

EWC 101314

2000/532/EC European Waste Catalogue / Ordinance on European List of Wastes: Waste concrete and concrete sludge

EWC 170101

2000/532/EC European Waste Catalogue / Ordinance on European List of Wastes: Concrete

EWC 170107

2000/532/EC European Waste Catalogue / Ordinance on European List of Wastes: Mixtures of concrete, bricks, tiles and ceramics

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Ü-mark in accordance with 'Model Administrative Order laying down Technical Building Regulations' (MVV TB) no. C 2.1.4.5

PCR Part A

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PCR Part B

Product Category Rules for Construction Products, Part B: Mineral Factory-Made Mortars, 2017-11

PG AIV

Testing principles regarding the issuing of general building authority test certificates for waterproofing with waterproofing in conjunction with ceramic tiles (PG-AIV:2018-03)

PG MDS/FPD

Testing principles regarding the issuing of general building authority test certificates for waterproofing with mineral waterproofing slurries and flexible polymer thick coatings (PG-MDS/FPD:2016-11)

REACH

Directive (EG) No. 1907/2006 of the European Parliament and of the Council dated 18 December 2006 on the registration, evaluation, approval and restriction of chemical substances (REACH), for establishing a European Agency for chemical substances, for amending Directive 1999/45/EC and for annulment of Directive (EEC) No. 793/93 of the Council, Directive (EC) No. 1488/94 of the Commission, Guideline 76/769/EEC of the Council and Guidelines 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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