ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	dormakaba International Holding GmbH
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-DOR-20210181-CBA2-EN
Issue date	07/10/2021
Valid to	06/10/2026

Access manager 92 30 dormakaba



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



General Information

dormakaba

Programme holder

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

Declaration number EPD-DOR-20210181-CBA2-EN

This declaration is based on the product category rules:

Electronic and physical Access Control Systems, 07.2019 (PCR checked and approved by the SVR)

Issue date

07/10/2021

Valid to 06/10/2026

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

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

Product

Product description/Product definition

The dormakaba access manager 92 30 is a highperformance access control system, optimised for single access points. Thanks to its intelligent decision logic and ability to be freely parametrised, the access manager can control simple types of access as well as more complex entrance and exit door configurations. Based on the latest operating system and TLS encryption between the controller and host system, the IT security is state-of-the-art. With integrated mobile access, the access system allows access via smartphone. The control electronics integrate everything that is required to enable a connection to cloud services via IoT. Power supply via PoE allows easy integration and the compact and discreet design allows installation in full view. Up to two registration units can be connected directly and further access readers via the RS-485 sub-bus. Optionally, a version with two Wiegand interfaces offers maximum flexibility and connectivity.

For the placing on the market in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) the following legal provisions apply:

Access manager 92 30

Owner of the declaration

dormakaba International Holding GmbH DORMA Platz 1 58256 Ennepetal Germany

Declared product / declared unit

1 piece of the product: Access manager 92 30

Scope:

This EPD refers to a specific product manufactured by dormakaba. The production site is located in Villingen-Schwenningen (Germany).

The data represents the year 2020.

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

Independent verification of the declaration and data according to ISO 14025:2010

internally x externally



Dr.-Ing. Wolfram Trinius (Independent verifier)

- Electromagnetic Compatibility Directive (EMC)
- Low Voltage Directive (LVD)
- Restriction of Hazardous Substances (RoHS)
- Radio Equipment Directive (RED)
- EN 50581:2012

The CE-marking takes into account the proof of conformity with the respective harmonized standards based on the legal provisions above. For the application and use the respective national provisions apply.

Application

Flexible access control

An access manager is installed in a protected environment and uses local or online decision logic to check whether an access request via connected card readers is granted or rejected.

Door management

Personnel interlock control

- Door activation
- Monitoring of door opening
- Monitoring of door opening time
- Access monitoring

Alarm Management

The access manager reports irregularities in access control or door management to the host computer. Tampering and burglary attempts are reliably identified.

Technical Data

The access manager 92 30 has the following technical properties:

Name	Value	Unit
Operating Temperature	0 - 50	°C
Operating Humidity	5 - 85	%
Width Dimension	208	mm
Height Dimension	208	mm
Depth Dimension	48	mm
Weight (without packaging)	0,675	kg
Weight (with packaging)	0,923	kg
Power consumption "idle mode"	5	W
Power consumption "on mode"	12	W

Host Interface

• Ethernet 10/100 Mbit/s

Peripherals Interface

Variant MRD

- 2x coaxial for registration units (LEGIC / MIFARE)
- 1x RS-485
- 1x RS-232
- 3x potential-free relays, 30 V AC/DC; max. 2 A
- 4x digital inputs
- 1x tamper contact

Variant Wiegand

- 2x Wiegand
- 1x RS232
- 3x potential-free relays, 30 V AC/DC; max. 2 A
- 4x digital inputs
- 1x tamper contact

Power supply

- PoE, as per IEEE 802.3af
- PoE+, as per IEEE 802.3at

Output voltage

- Reader: 5/12 V DC
- Elec. door opener: 12/24 V DC

Class of protection as per EN 60529:IP40.

The product is not harmonised in accordance with the Construction Product Regulations (CPR) but in

LCA: Calculation rules

Declared Unit

The declared unit is 1 piece of the product: Access manager 92 30.

Declared unit

Doolalou ullit		
Name	Value	Unit
Declared unit	1	pce.
Product weight including	0,923	kg

accordance with other provisions for harmonisation of the EU. Compliance with the European Union Directive and technical specifications:

- EN 55032:2015
- EN 55024:2010 + A1:2015
- EN 50364:2010
- EN 62368-1:2014 + A11:2017
- EN 60529:2014
- EN 301489-1 V2.2.1 Draft
- EN 301489-3 V2.1.1
- EN 300330 V2.1.1

The product is subject to CE marking according to the relevant harmonization legislation.

In addition, the product also conforms to the following standards:

- UL 294:2013
- UL62368-1:2014-12
- CAN/CSA-22.2 No. 62368-1:2014-12
- FCC ID NVI-DKAM9230K7

Base materials/Ancillary materials

The major material compositions of the product are listed below:

Name	Value	Unit
Plastics	48,5	%
Paper	27	%
Electronics	23,5	%
Steel	1	%

The product includes partial articles which contain substances listed in the Candidate List of REACH Regulation 1907/2006/EC (date: 08.07.2021) exceeding 0.1 percentage by mass in the alloy: yes

• Lead titanium trioxide (O3PbTi): 12060-00-03

The Candidate List can be found on the ECHA website address: https:echa.europa.eu/de/home.

Reference service life

The reference service life of the dormakaba access manager 92 30 is estimated to be 15 years. This number is based on the support and service life and is not an estimated lifetime.

System boundary

packaging

The type of EPD is: cradle to gate with options, modules C1–C4, and module D

(A1–A3 + C + D and additional modules: A4 + A5 + B6)

Production - Module A1-A3

The product stage includes: — A1, raw material extraction, processing and mechanical treatments, processing of secondary material input (e.g. recycling processes), — A2, transport to the manufacturer,

— A3, manufacturing and assembly

including provision of all materials, products and energy, as well as waste processing up to the end-of waste state.

Construction stage - Modules A4-A5

The construction process stage includes:

- A4, transport to the building site;

— A5, installation into the building;

including provision of all materials, products and energy, as well as waste processing up to the end-ofwaste state or disposal of final residues during the construction process stage.

Use stage - Module B6

The use stage related to the operation of the building includes:

LCA: Scenarios and additional technical information

Characteristic product properties Information on biogenic Carbon

Information on describing the biogenic Carbon Content at factory gate

Name	Value	Unit
Biogenic carbon content in product	0.01	kg C
Biogenic carbon content in accompanying packaging	0.1	kg C

The following technical scenario information is required for the declared modules.

Transport to the building site (A4)

Name	Value	Unit
Litres of fuel per 1 kg (truck)	0.00276	l/100km
Transport distance (truck)	750	km
Capacity utilisation (including empty runs)	51	%
Transort distance (ship)	1000	km

Installation into the building (A5)

Name	Value	Unit
Waste Packaging (paper)	0.227	kg
Waste Packaging (plastic)	0,022	kg

Reference service life

Name	Value	Unit
Life Span according to the	15	2
manufacturer	15	a

Operational energy use (B6) and Operational water use (B7)

 The use stage is declared for 15 years.

 Name
 Value

 Unit

- B6, operational energy use

End-of-life stage- Modules C1-C4 and D

The end-of-life stage includes:

- C1, de-construction, demolition:
- C2, transport to waste processing;

— C3, waste processing for reuse, recovery and/or recycling;

— C4, disposal;

including provision and all transport, provision of all materials, products and related energy and water use. Module D (Benefits and loads beyond the system boundary) includes:

- D, recycling potentials, expressed as net impacts and benefits.

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 database: GaBi, SP40.

Energy consumption for 1 year	54.02	kWh
on mode per day	4	h
idle mode	20	h
on mode power	12	W
idle mode	5	W
Days per year in use	365	days

End of life (C1-C4)

C1: The product dismantling from the building is done manually without environmental burden.

Name	Value	Unit						
Recycling (Steel)	0.01	kg						
Energy recovery (Plastic)	0.43	kg						
Energy recovery (Paper)	0,02	kg						
Recycling and landfilling (Electronics)	0,21	kg						
Transportation to Waste	50	km						
Pagion for and of life: Clobal								

Region for end of life: Global

Reuse, recovery and/or recycling potentials (D), relevant scenario information Collection rate is 100%.

LCA: Results

Disclaimer:

EP-freshwater: This indicator has been calculated as "kg P eq" as required in the characterization model (EUTREND model, Struijs et al., 2009b, as implemented in ReCiPe; http://eplca.jrc.ec.europa.eu/LCDN/developerEF.xhtml).

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PROE	DUCT S	STAGE	CONSTI ON PRC STA	CESS			U	SE STAC	θE			EN	ID OF LI	FE STA	AGE	BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
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
X	Х	X	X	Х	ND	ND	MNR	MNR	MNR	Х	ND	ND	Х	X	Х	X
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	P-total		CO ₂ -Eq.])E+1	6.36E		3.75E-1		13E+2	2.98		1.08E+		4.05E-4	-1.24E+0
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	DP		C11-Eq.]		5E-9	6.39E-		8.50E-17		20E-12	3.01		5.47E-		1.49E-18	-8.26E-15
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	narine		<u>P-Eq.]</u> N-Eq.]		+⊑-4 2E-2	1.31E 4.78E		1.50E-6 3.47E-5		<u>os⊨-4</u> 00E-1	9.07		0.73E- 4.35E-		7.42E-7	-1.10E-0 -9.75E-4
EP-te	rrestrial	[mo	IN-Eq.]	1.62	2E-1	5.26E		4.49E-4	3.	23E+0	1.01	E-5	8.80E-	4	8.16E-6	-1.05E-2
	DCP	[kg NN	IVOC-Eq.]		7E-2	1.34E		9.22E-5		67E-1	2.56		1.21E-		2.25E-6	-3.19E-3
			Sb-Eq.]	1.31		1.81E		1.29E-9		48E-5	8.54		7.50E-		3.61E-11	-4.92E-4
	DPF		[MJ] vorld-Eq		'E+2	8.57E		1.26E-1		19E+3	4.04		5.03E-		5.27E-3	-1.79E+1
W	/DP	de	prived]		E+0	1.19E		4.54E-2		74E+1	5.58		1.11E-		4.21E-5	-3.54E-1
GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non- fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 piece																
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Acces Indica PER PER PEN PEN SM RSF NRS FW Caption	SS ma tor E M T T RE RE RE RE RE F F F F F F C F C C C C C C	Unit [M.]	E LCA 92 30 A1-A3 4.50E+1 4.80E+1 2.36E+2 2.07E+2 2.24E+2 2.08E+2 7.10E-3 0.00E+(9.51E-2 9.51E-2 Jse of rer imary ener wable prin imary ener material; E LCA manage	a construction of the second s	A4 2.71E-3 0.00E+(2.71E-3 8.58E-1 0.00E+(8.58E-1 0.00E+(3 3 3 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	A5 2.75E+0 -2.72E+0 2.49E-2 1.03E+0 9.05E-1 1.26E-1 0.00E+0 0.00E+0 1.07E-3 excludin raw mat on-rene raw mat	ng renew erials; P wable p terials; P mdary fue	B6 2.32E+3 0.00E+0 2.32E+3 6.20E+3 0.00E+0 0.00E+0 0.00E+0 0.00E+0 3.16E+0 rable prii ERT = T rimary er ENRT = els; NRS water	mary en otal use hergy re Total use	C2 1.27E-4 1.00E+0 1.27E-4 4.04E-2 0.00E+0 1.00E+0 0.00E+0 2.28E-7 ergy resc of renew sources se of nor-r	3 -2 1 1. -1 5 0. 0. 0. 0. 2 2 urces u vable pri used as h-renewa enewabl	C3 95E-1 .64E-1 .31E-1 .59E+1 .54E+1 .03E-1 00E+0 .00E	6 0. 5 0. 0. 0. 0. 0. 1 aw mate ergy res terials; f nary ene dary fue	15804- C4 .91E-4 .00E+0 .91E-4 .28E-3 .00E+0 .00E+0 .00E+0 .00E+0 .00E+0 .33E-6 erials; PE sources; I PENRM = ergy resources; FW = 15804-	+A2: 1 piece D -3.05E+0 0.00E+0 -3.05E+0 -1.79E+1 0.00E+0 -1.79E+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 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+3 RM = Use of PENRE = Use of Use of non- urces; SM = Use Use of net fresh +A2:
Acces Indica PER PER PENF PENF PENF SM SM SM SM Caption RESU	SS Ma tor I E M T T R R R T R R T R R T R R T R R R R R R R R R R R R R	OF TH	E LCA 92 30 A1-A3 4.50E+1 4.80E+1 2.36E+2 2.07E+2 2.24E+2 7.10E-3 0.00E+C 9.51E-2 9.51E-2 9.51E-2 9.51E-2 Jse of ren wable prin rimary en a material; E LCA manage A1-A3	a construction of the second s	A4 2.71E-3 0.00E+(2.71E-3 8.58E-1 0.00E+(8.58E-1 0.00E+(3 0 3 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	A5 2.75E+0 -2.72E+0 2.49E-2 1.03E+0 9.05E-1 1.26E-1 0.00E+0 0.00E+0 0.00E+0 1.07E-3 excludin raw mat bon-rene raw mat bon-rene raw mat bon-Secore raw mat bon-rene raw mat bon-r	o construction of the second s	B6 2.32E+3 0.00E+0 2.32E+3 0.20E+3 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.316E+0 able print ERT = T imary end ENT = t is; NRS water 0.00T1 B6	mary en Total use	C2 1.27E-4 1.27E-4 1.27E-4 1.27E-4 1.04E-2 1.00E+0 1.00E+0 1.00E+0 1.00E+0 2.28E-7 2.28E-7 2.28E-7 2.28E-7 5 0 f renew sources se of nor- of non-r	3 -2 1 1. -1 5 0. 0. 0. 0. 2 Durces u vable pri used as i-renewa enewable accor	C3 95E-1 .64E-1 .31E-1 .59E+1 .54E+1 .03E-1 00E+0 00E+0 00E+0 00E+0 .00E	6 0. 55 0. 0. 0. 0. 0. 0. 0. 1 1 aw mate ergy res- terials; F ary ene dary fue	15804- C4 91E4 00E+0 91E4 228E-3 00E+0 228E-3 00E+0 00E+0 00E+0 33E-6 proves; I PENRM = proves: proves: proves: 15804- C4	+A2: 1 piece D -3.05E+0 0.00E+0 -3.05E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0
Acces Indica PER PER PEN PEN PEN SM RS FW Caption Caption 1 piece Indica	SS Ma tor E M T RE RE RT RT RE RT R	Unit [M.]	E LCA 92 30 A1-A3 4.50E+1 4.80E+1 2.36E+2 2.07E+2 2.24E+2 7.10E-3 0.00E+C 9.51E-2 9.51E-2 9.51E-2 9.51E-2 Jse of rer imary end wable prin rimary end material; E LCA manage A1-A3 1.39E-5	a construction of the second s	A4 2.71E-3 0.00E+(2.71E-3 8.58E-1 0.00E+(3 3 3 1 3 1 2 3 1 2 2 3 1 2 3 4 2 2 3 1 2 2 3 1 2 3 1 2 2 2 2 2 2 2 2 2 2 2 2 2	A5 2.75E+0 -2.72E+0 2.49E-2 1.03E+0 9.05E-1 1.26E-1 0.00E+0 0.00E+0 1.07E-3 excludin raw mat pole secor CORIE A5 2.44E-10	o i i i i i i i i i i i i i i i i i i i	B6 2.32E+3 0.00E+0 2.32E+3 0.00E+0	mary en Total use hergy re Total use PUT F	C2 1.27E-4 1.00E+0 1.27E-4 1.02F-4 1.00E+0 1.00E+0 1.00E+0 1.00E+0 1.00E+0 1.00E+0 1.00E+0 1.00E+0 1.00E+0 1.00E+0 1.00E+0 1.00E+0 1.27E-4	3 -2 1 1. -1 5 0. 0. 0. 0. 0. 0. 2 Durces u vable pri used as -renewable accord	C3 95E-1 .64E-1 .31E-1 .59E+1 .54E+1 00E+0 00E+0 00E+0 .00E+0	6 0. 55 0. 55 0. 0. 0. 0. 0. 0. 0. 11 aw mate ergy res terials; F aary ene dary fue	15804- C4 .91E-4 .00E+0 .91E-4 .28E-3 .00E+0 .0	+A2: 1 piece D -3.05E+0 0.00E+0 -3.05E+0 -1.79E+1 0.00E+0 -1.79E+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 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0 -7.79E-3 RM = Use of PENRE = Use of Use of non- urces; SM = Use Use of net fresh +A2: D -3.10E-8
Acces Indica PER PER PENF PENF SM SM SM SM SM Caption Caption 1 piec	SS Ma tor f E M T R R R R R R R R R R R R R	OF TH	E LCA 92 30 A1-A3 4.50E+1 4.80E+1 2.36E+2 2.07E+2 2.24E+2 7.10E-3 0.00E+C 9.51E-2 9.51E-2 9.51E-2 9.51E-2 Jse of ren wable prin rimary en a material; E LCA manage A1-A3	I I I I	A4 2.71E-3 0.00E+(2.71E-3 8.58E-1 0.00E+(8.58E-1 0.00E+(3 3 3 3 1 2 3 1 2 2 2 3 3 1 2 2 3 3 3 1 2 2 3 3 1 2 2 3 3 1 2 2 3 1 2 2 3 1 2 2 3 1 2 2 2 3 1 2 2 2 2 2 2 2 2 2 2 2 2 2	A5 2.75E+0 -2.72E+0 2.49E-2 1.03E+0 9.05E-1 1.26E-1 0.00E+0 0.00E+0 0.00E+0 1.07E-3 excludin raw mat bon-rene raw mat bon-rene raw mat bon-Secore raw mat bon-rene raw mat bon-r) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	B6 2.32E+3 0.00E+0 2.32E+3 0.20E+3 0.00E+0 0.00E+0 0.00E+0 0.00E+0 0.00E+0 1.316E+0 able print ERT = T imary end ENT = t is; NRS water 0.00T1 B6	mary en Total use hergy re Total use	C2 1.27E-4 1.27E-4 1.27E-4 1.27E-4 1.04E-2 1.00E+0 1.00E+0 1.00E+0 1.00E+0 2.28E-7 2.28E-7 2.28E-7 2.28E-7 5 0 f renew sources se of nor- of non-r	33 -2 1 1. -1 5 0. 0. 0. 0. 0. 2 2 0urces u vable pri used as 1-renewa enewabl accor	C3 95E-1 .64E-1 .31E-1 .59E+1 .54E+1 .03E-1 00E+0 00E+0 00E+0 00E+0 .00E	ergy resterials; Flary energy resterials; Flar	15804- C4 91E4 00E+0 91E4 228E-3 00E+0 228E-3 00E+0 00E+0 00E+0 33E-6 proves; I PENRM = proves: proves: proves: 15804- C4	+A2: 1 piece D -3.05E+0 0.00E+0 -3.05E+0 -1.79E+1 0.00E+0 -1.79E+1 0.00E+0
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	for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported thermal energy											
RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 piece Access manager 92 30												
Indicator	Unit	A1-A3	A4	A5	B6	C2	C3	C4	D			
PM	[Disease Incidence]	8.63E-7	2.20E-9	6.21E-10	2.56E-5	1.50E-11	2.46E-9	3.57E-11	-9.35E-8			
IRP	[kBq U235- Eq.]	4.65E-1	1.32E-4	9.09E-4	1.16E+2	6.20E-6	1.68E-3	6.18E-6	-1.24E-1			
ETP-fw	[CTUe]	1.35E+2	6.08E-1	5.75E-2	2.28E+3	2.86E-2	1.89E-1	3.01E-3	-6.86E+0			
HTP-c	[CTUh]	1.91E-8	1.14E-11	3.36E-12	8.34E-8	5.39E-13	1.63E-11	4.47E-13	-4.78E-10			
HTP-nc	[CTUh]	2.96E-7	4.91E-10	1.92E-10	3.32E-6	2.30E-11	1.65E-9	4.92E-11	-3.26E-8			
SQP	[-]	7.60E+1	2.21E-3	3.44E-2	1.71E+3	1.04E-4	1.51E-1	1.10E-3	-6.06E+0			
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 humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (cancerogenic); SQP = Potential soil guality index											

Disclaimer 1 - for the indicator IRP

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 nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators ADPE, ADPF, WDP, ETP-fw, HTP-c, HTP-nc, SQP 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.

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