



hansgrohe

Carbon footprint of a bathroom



IN TOUCH
WITH OUR
PLANET

Before you start...

The following analysis provides information on the carbon footprint of a bathroom.

Background:

All products, buildings or building components cause greenhouse gas emissions throughout their life cycle. Greenhouse gases are defined as six different gases that have a negative impact on climate change. The best known is carbon dioxide (CO₂). The impact of these gases is measured and compared in CO₂ equivalents (CO₂e). Therefore, when the term CO₂ footprint is used in the analysis, it includes all the greenhouse gas emissions mentioned. The life cycle of an object includes all steps from creation to use to disposal.

About the analysis:

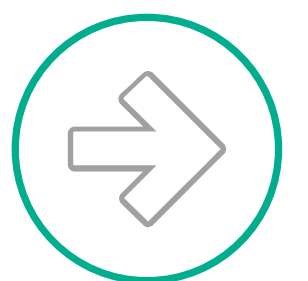
In this version of the analysis dated 03.06.2022, the manufacturing phase, the use phase and the disposal phase of the bathroom are considered. Production and disposal are summarized in the further course. Thus, in this document, one has the option of either adding up the production and disposal of the bathroom or to display the sum of all three life cycle phases. All values greater than 5 have been rounded to the nearest ten - minor deviations may therefore occur when calculating the totals.

The following basic assumptions were made for the analysis:

- o The design of the bathroom is intended to represent a standard bathroom as it is built in Germany today.
- o The bathroom is part of a residential building in Freiburg im Breisgau.
- o The size of the bathroom is 10 m².
- o The bathroom is used by a family of 4 people.
- o The period of use considered corresponds to a typical renovation cycle of 20 years.



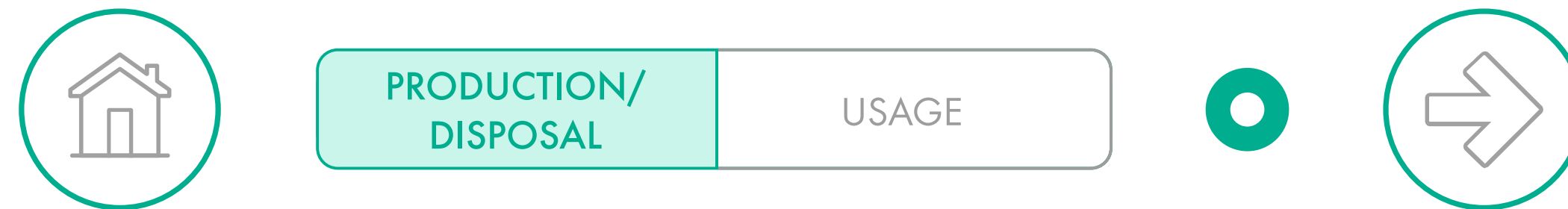
NEXT



Info on how to use the file

This is an interactive PDF that responds to user input. Therefore, avoid scrolling and do not click in the blank areas to get a correct display and navigation. Only use the buttons provided for this purpose.

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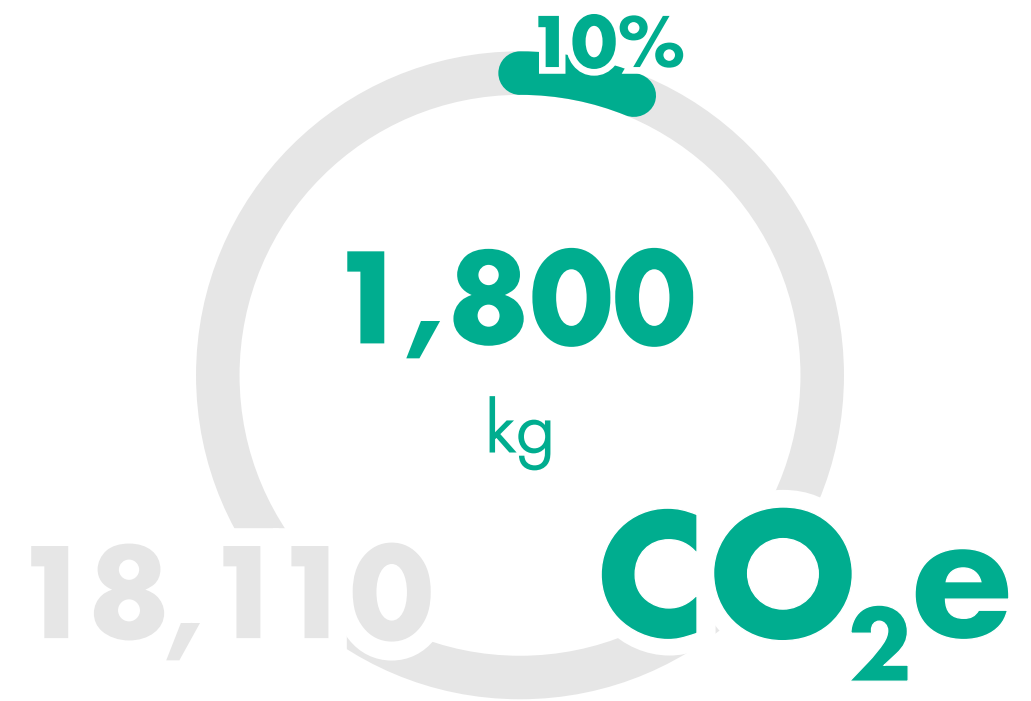


Tip: Use full screen mode (CTRL + L)





HOME



OVERVIEW

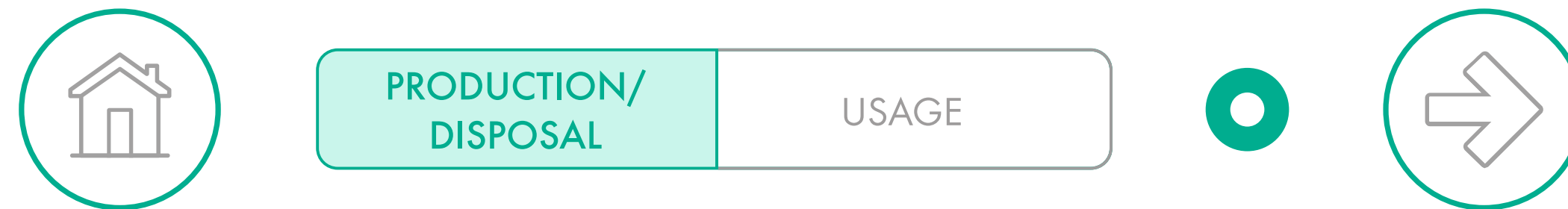
CHART VIEW



Info on how to use the file

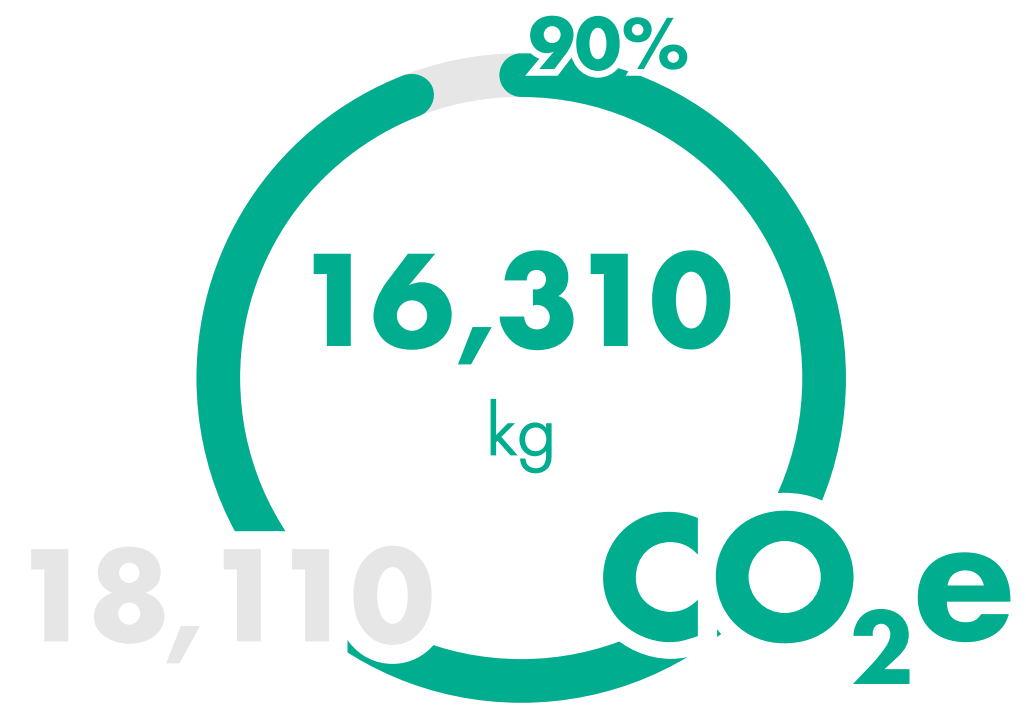
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HOME



OVERVIEW



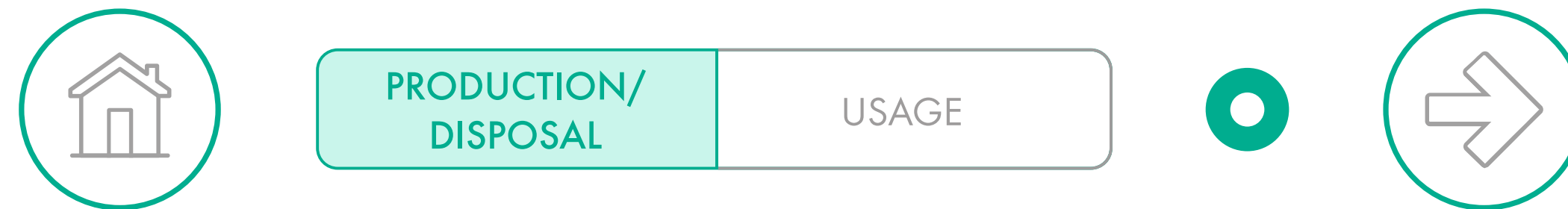
CHART VIEW

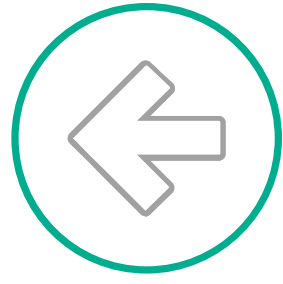


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BACK

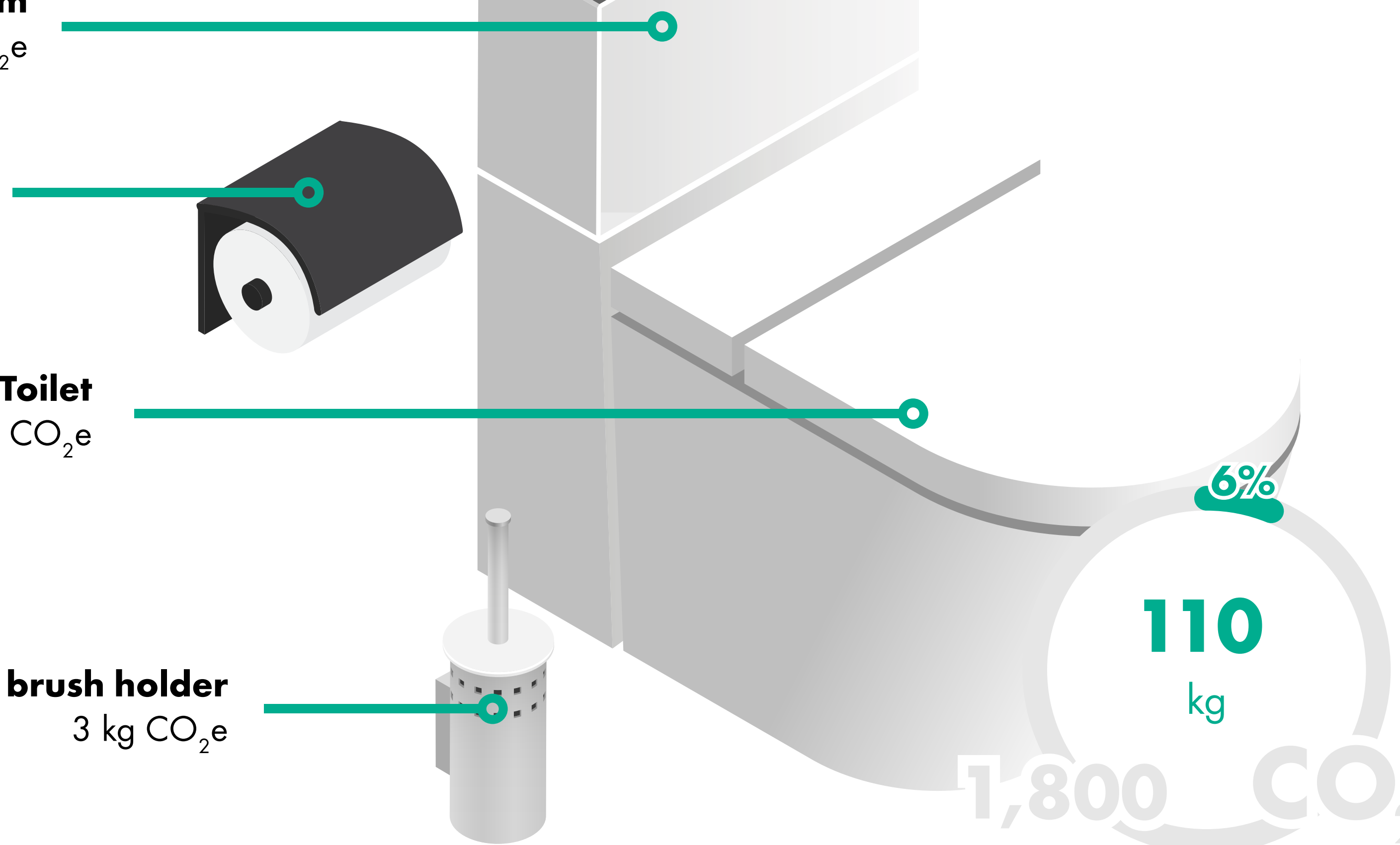
TOILET

Cistern system
30 kg CO₂e

Hansgrohe toilet paper holder
4 kg CO₂e

Toilet
70 kg CO₂e

Hansgrohe toilet brush holder
3 kg CO₂e



110
kg

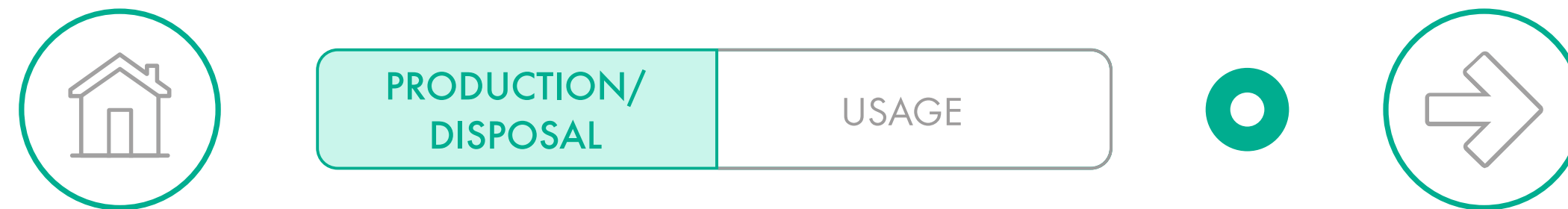
6%

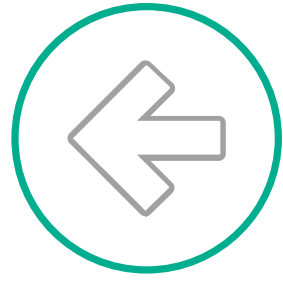
1,800 CO₂e

Info on how to use the file

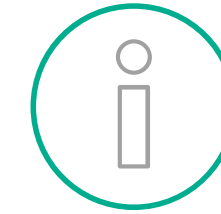
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These are as follows:





BACK



SHOWER

Ceramic tiles wall covering
50 kg CO₂e

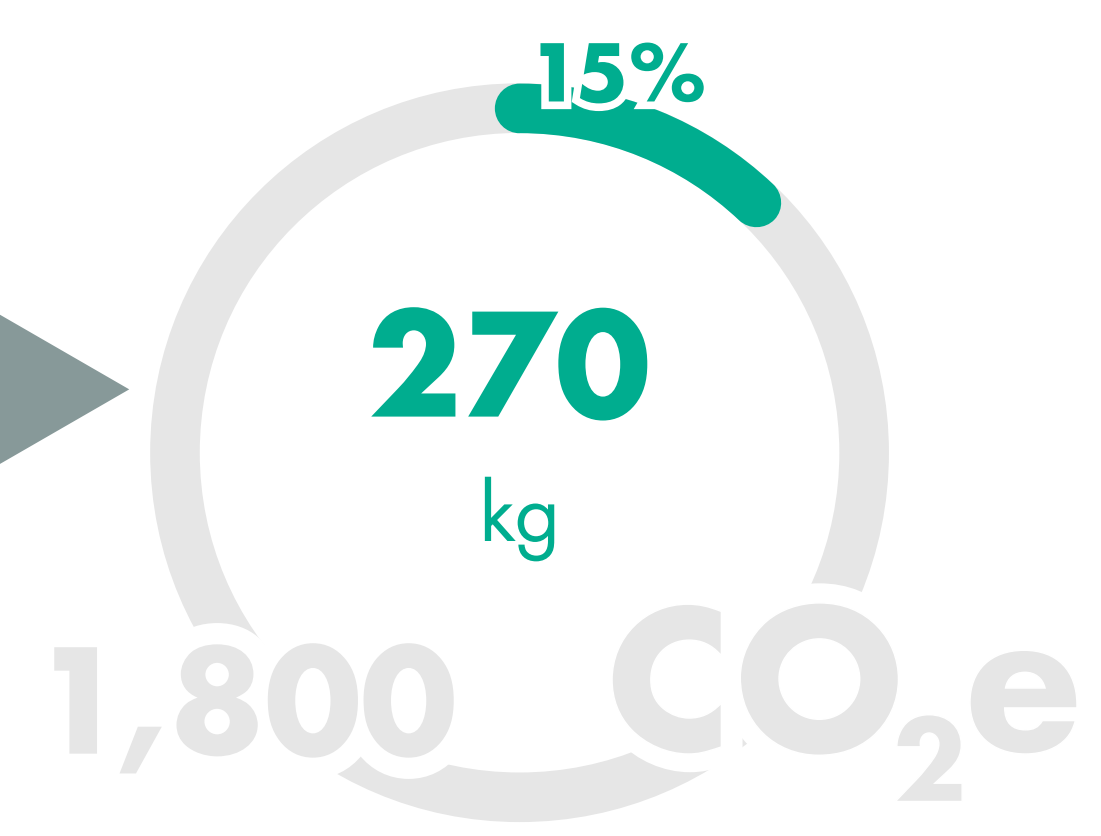
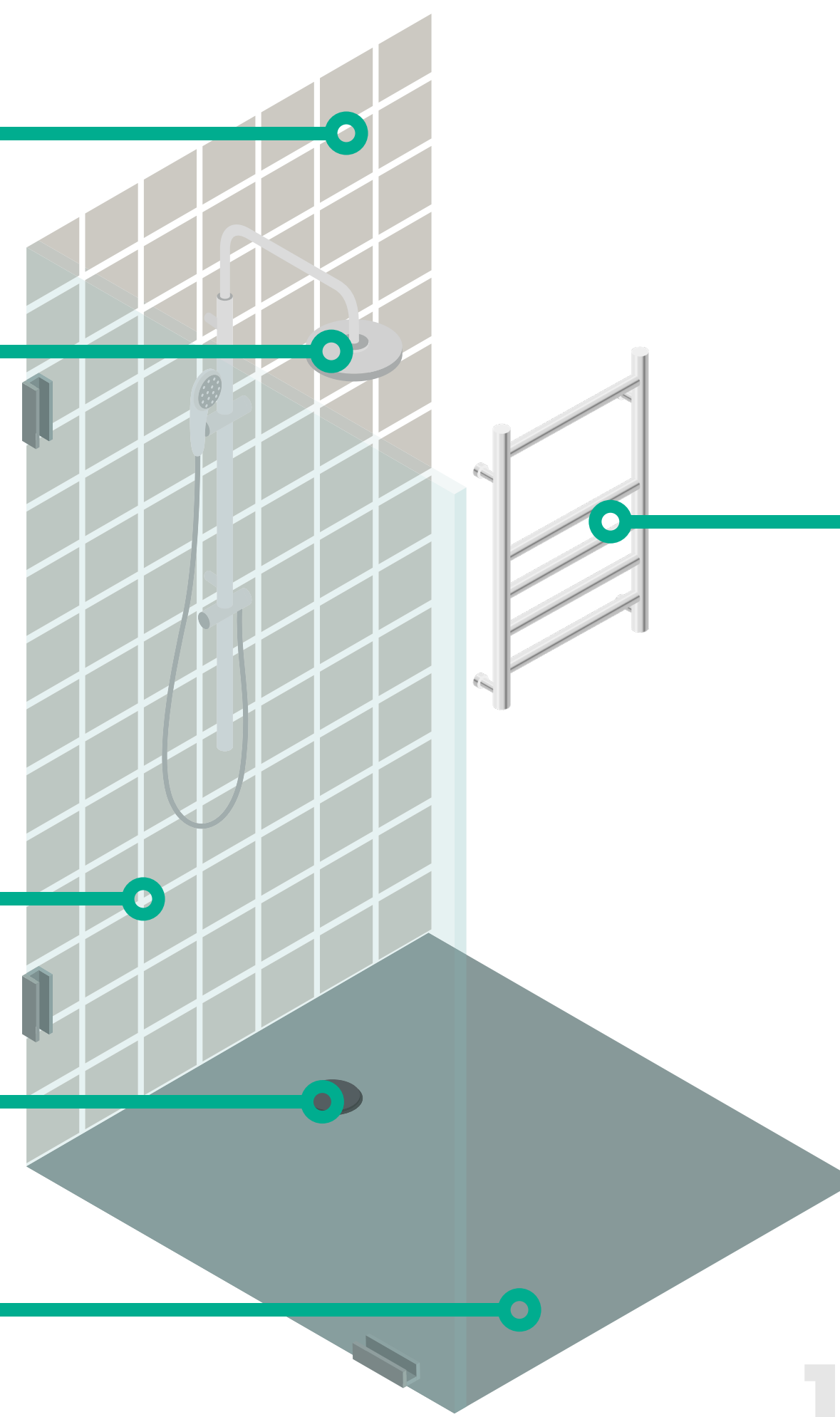
Hansgrohe Showerpipe
10 kg CO₂e

Towel warmer
130 kg CO₂e

Glass shower partition
50 kg CO₂e

Hansgrohe drain set
2 kg CO₂e

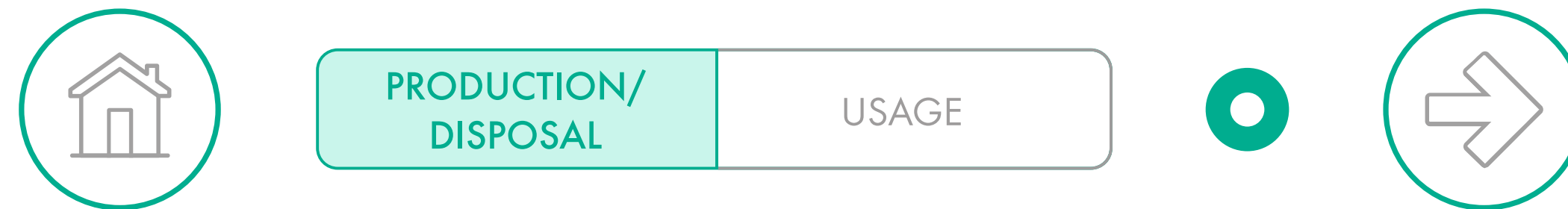
Ceramic tiles floor covering
30 kg CO₂e

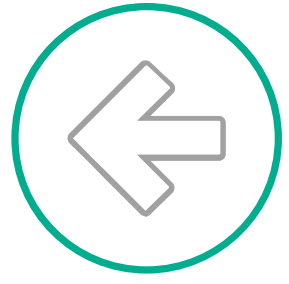


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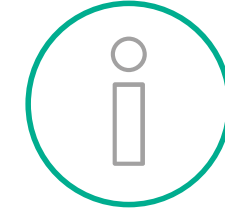
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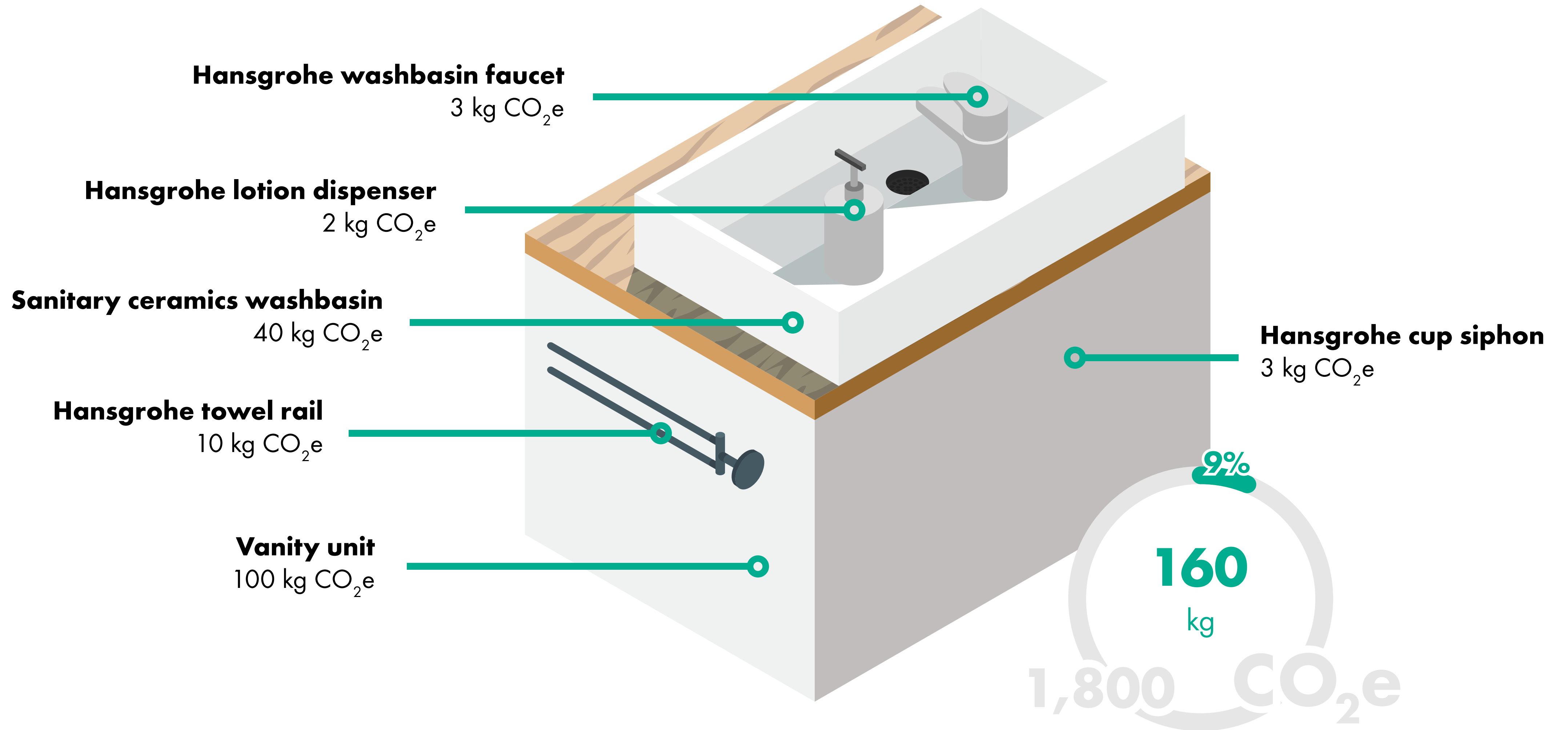




BACK



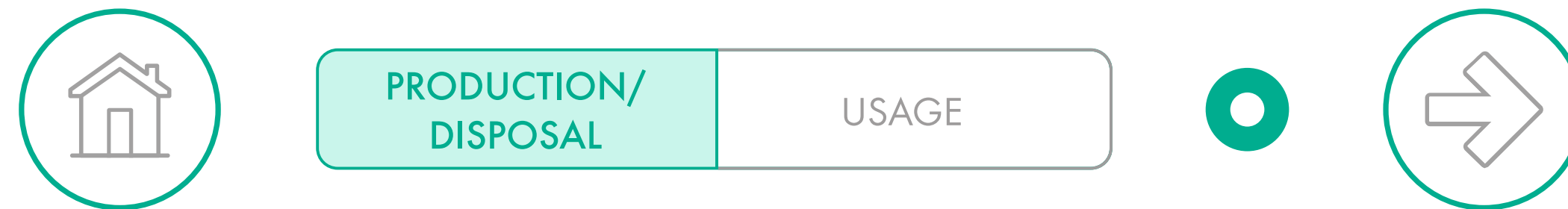
WASH BASIN

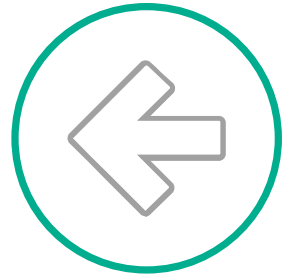


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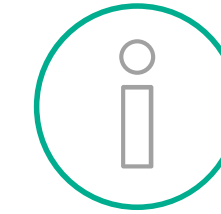
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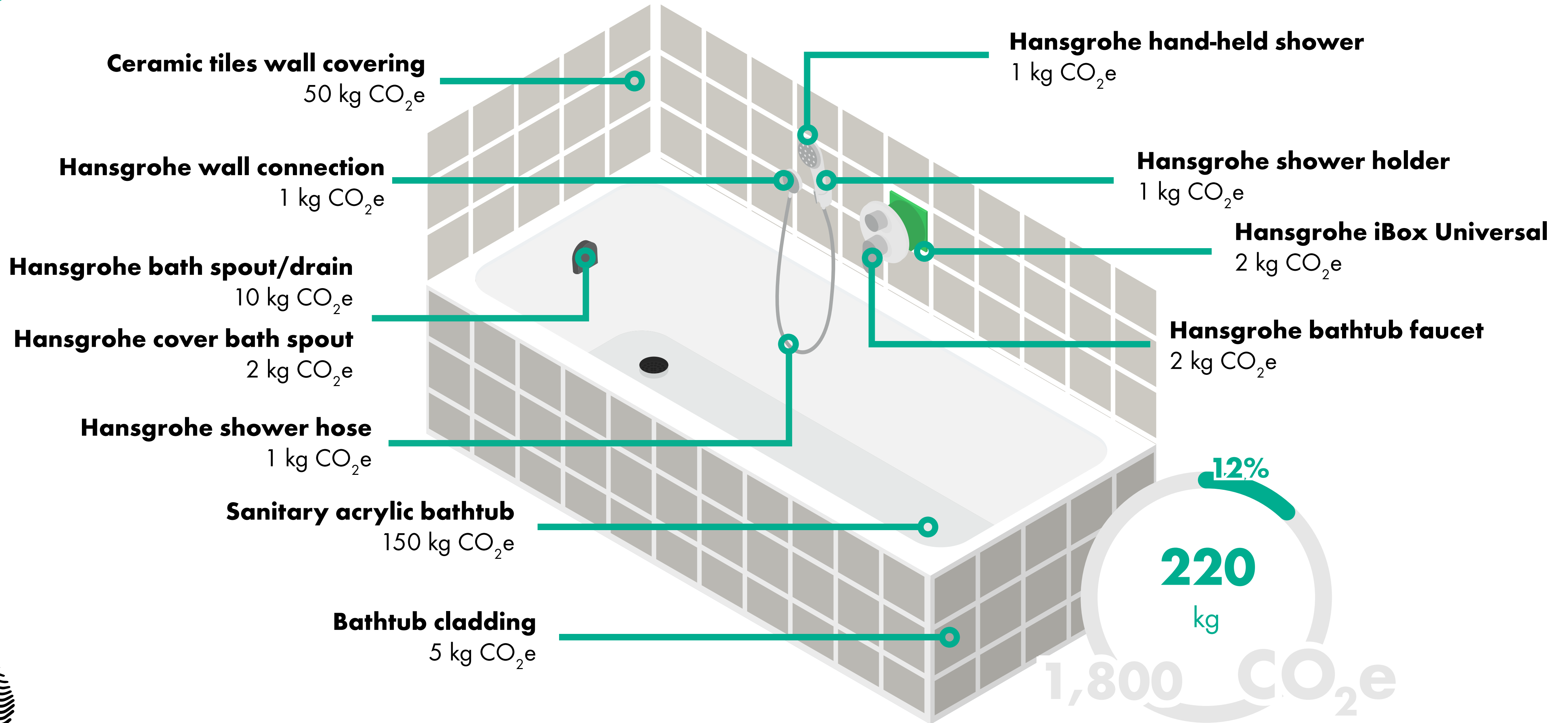




BACK



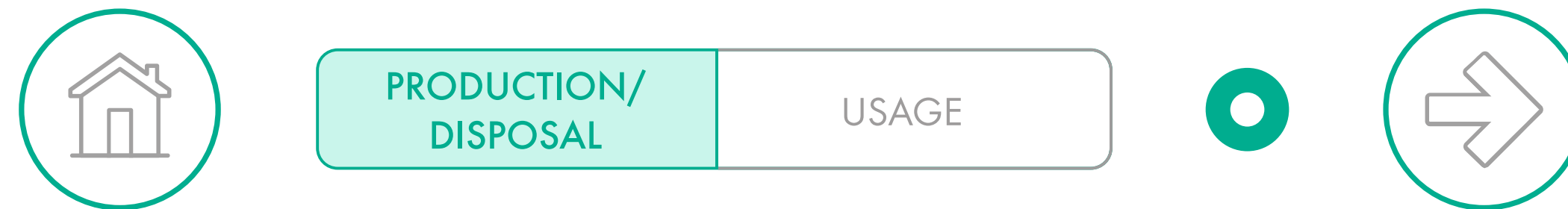
BATHTUB

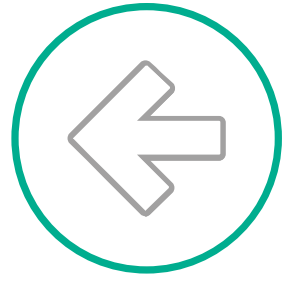


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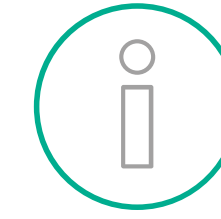
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BACK

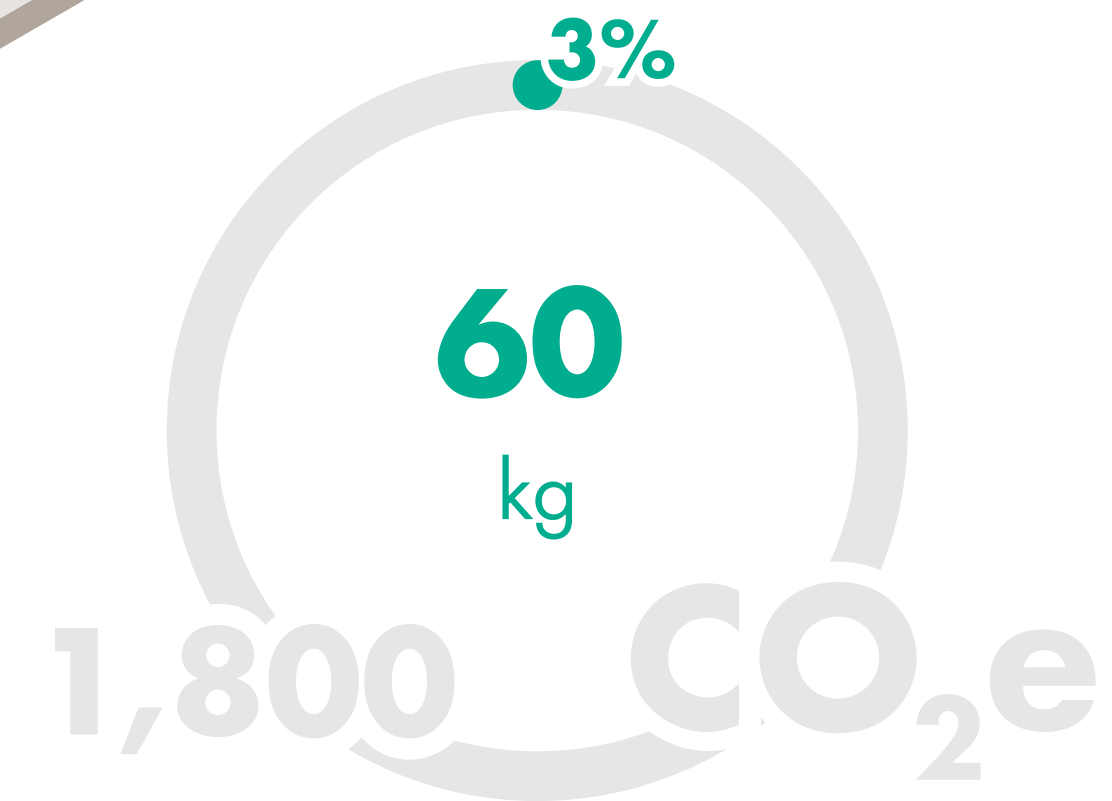
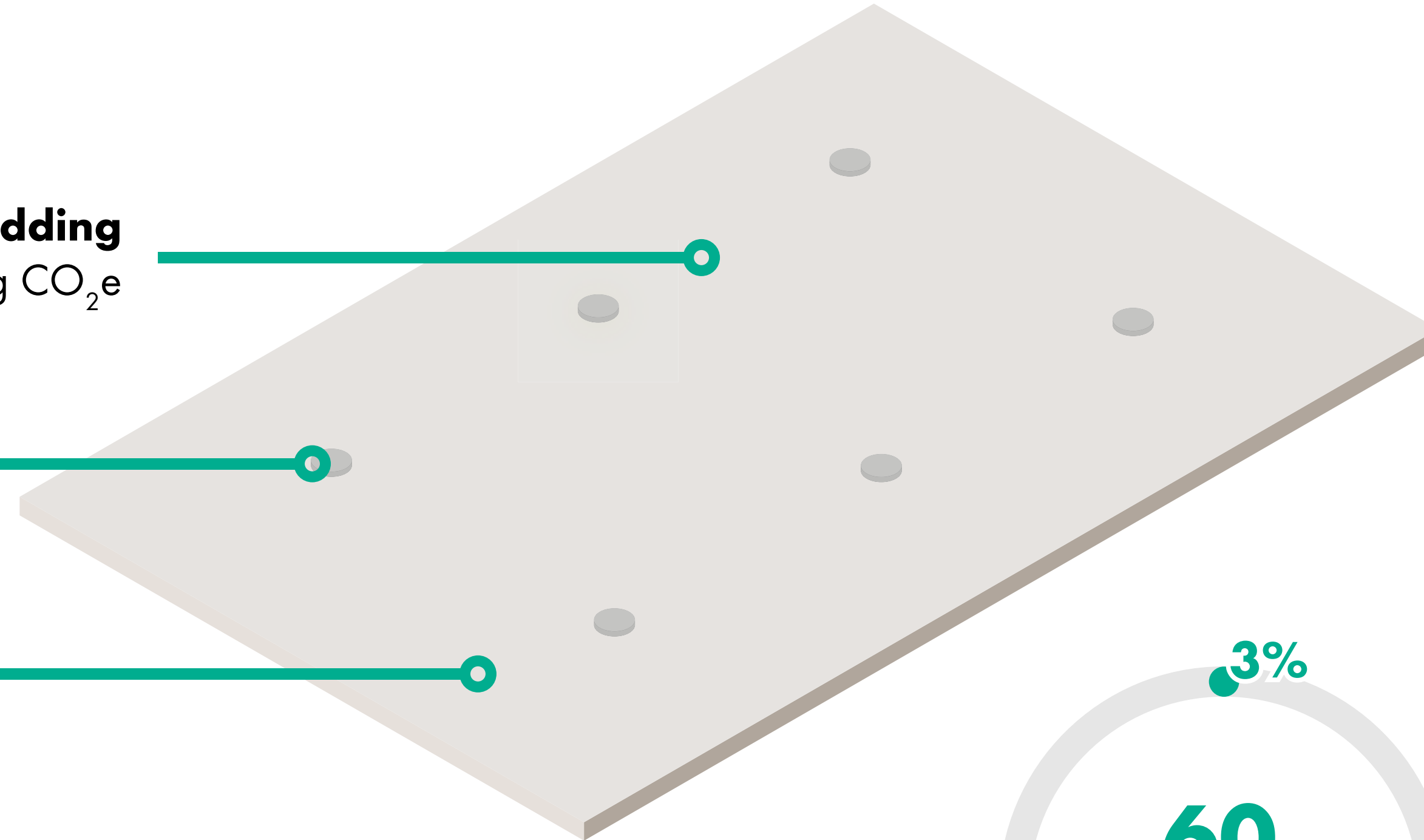


CEILING

Plasterboard ceiling cladding
20 kg CO₂e

Ceiling spots
20 kg CO₂e

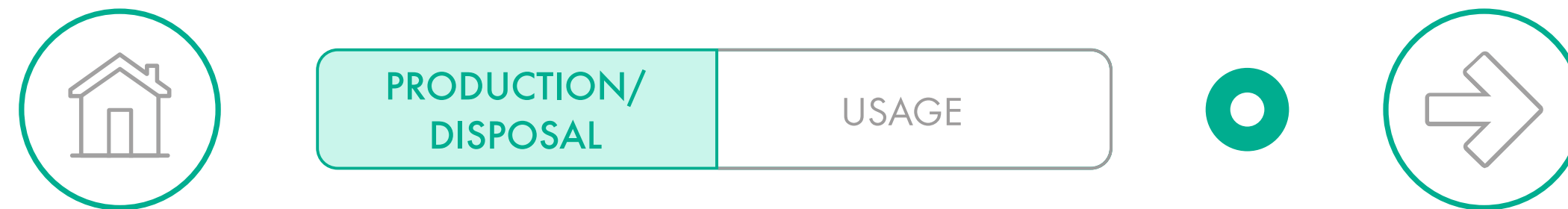
Ceiling profiles
20 kg CO₂e

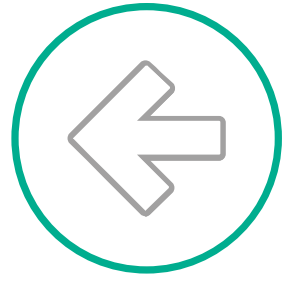


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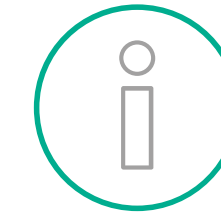
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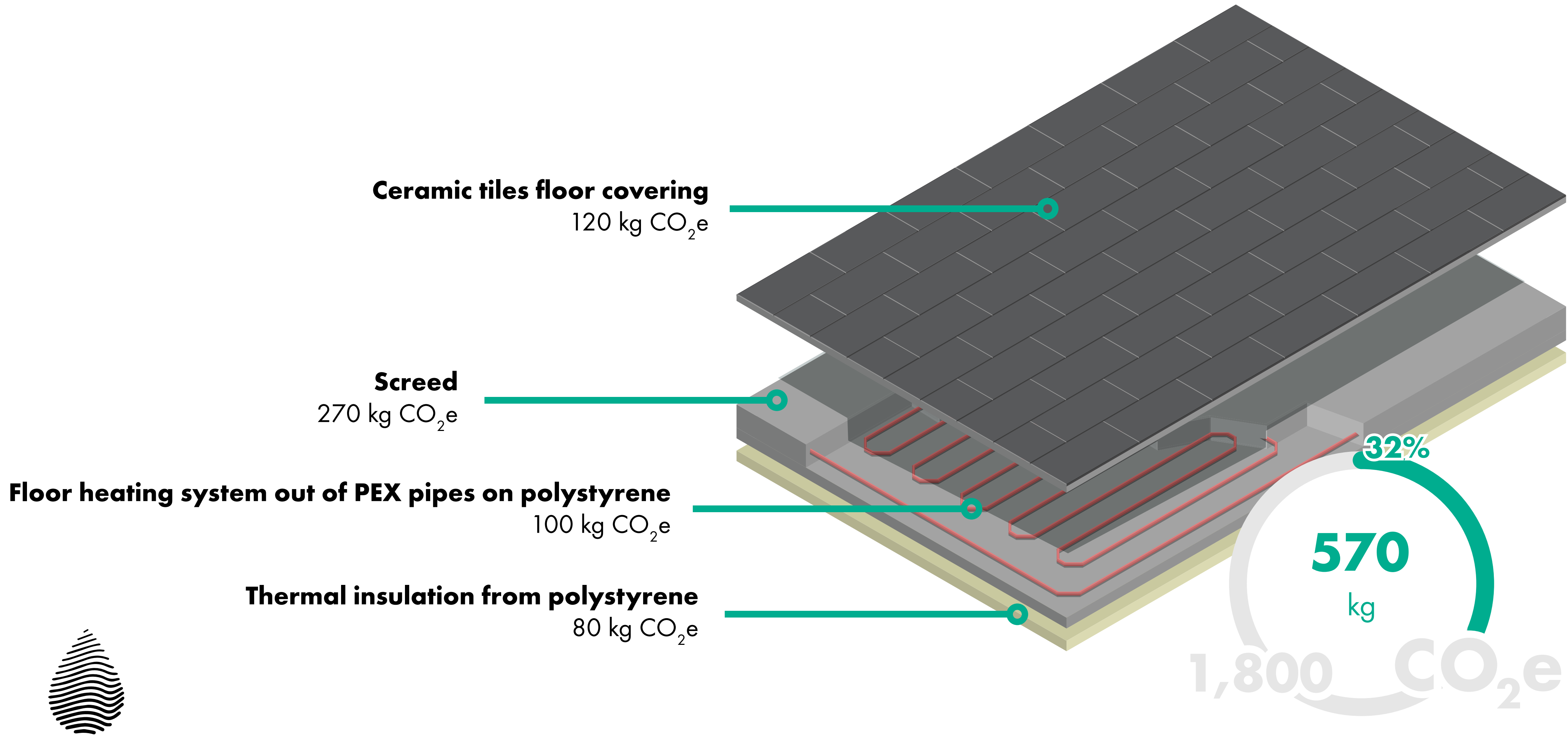




BACK



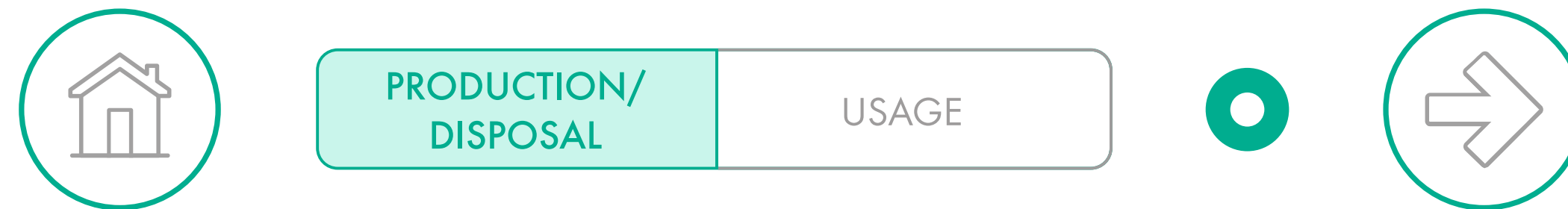
FLOOR

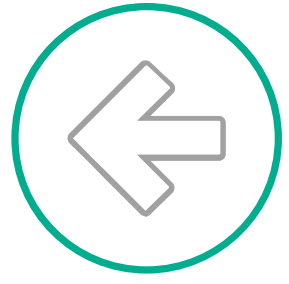


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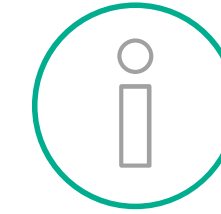
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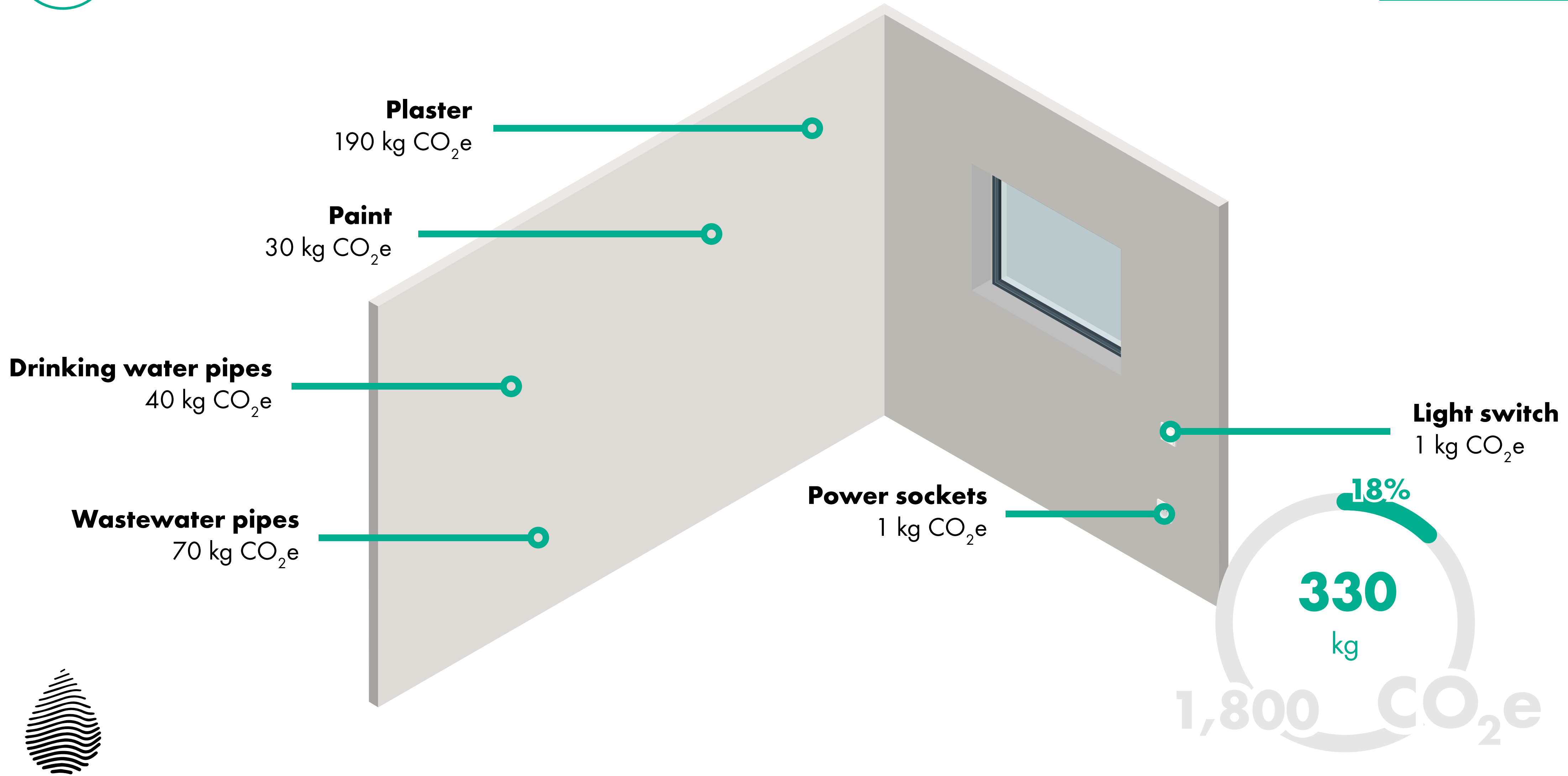




BACK



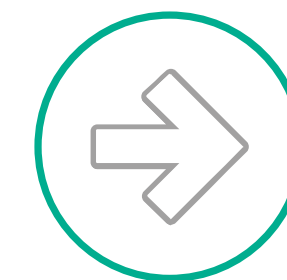
WALL



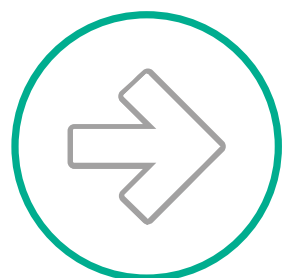
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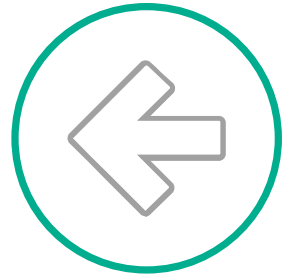
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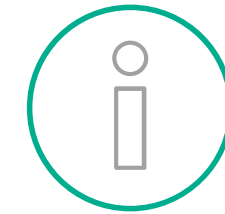


NEXT





BACK



WASH BASIN

Hansgrohe washbasin faucet
3 kg CO₂e

Water consumption
60 kg CO₂e

Energy consumption hot water
2,190 kg CO₂e

Hairdryer
700 kg CO₂e

Hansgrohe lotion dispenser
2 kg CO₂e

Vanity unit
100 kg CO₂e

Washbasin wastewater
180 kg CO₂e

Hansgrohe towel rail
10 kg CO₂e

Toothbrushes
3 kg CO₂e

Toothpaste
280 kg CO₂e

Liquid soap
490 kg CO₂e

Deodorant
70 kg CO₂e

Sanitary ceramics washbasin
40 kg CO₂e

Hansgrohe cup siphon
3 kg CO₂e

23%

4,130
kg

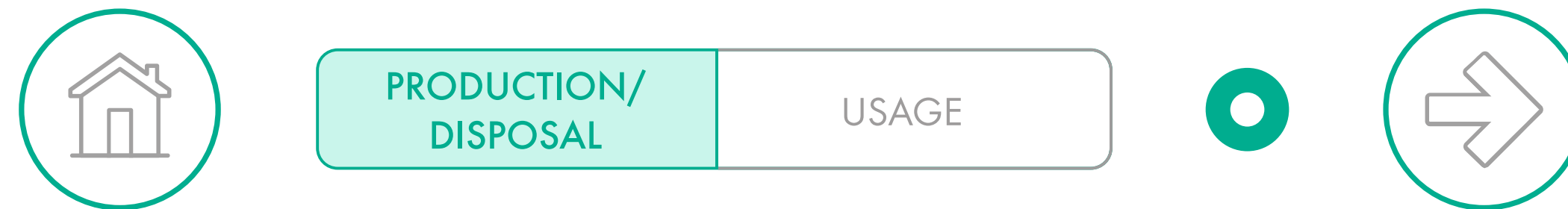
18,110 CO₂e

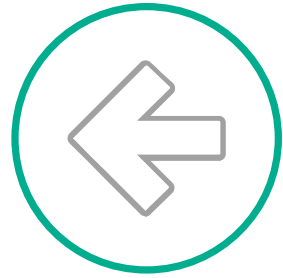


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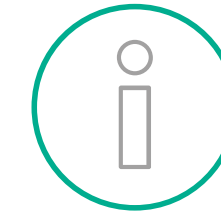
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These are as follows:





BACK



TOILET

Cistern system

30 kg CO₂e

Hansgrohe Toilet paper holder

4 kg CO₂e

Toilet

70 kg CO₂e

Toilet brush

20 kg CO₂e

Hansgrohe Toilet brush holder

3 kg CO₂e

Toilet cleaner

40 kg CO₂e

Toilet paper

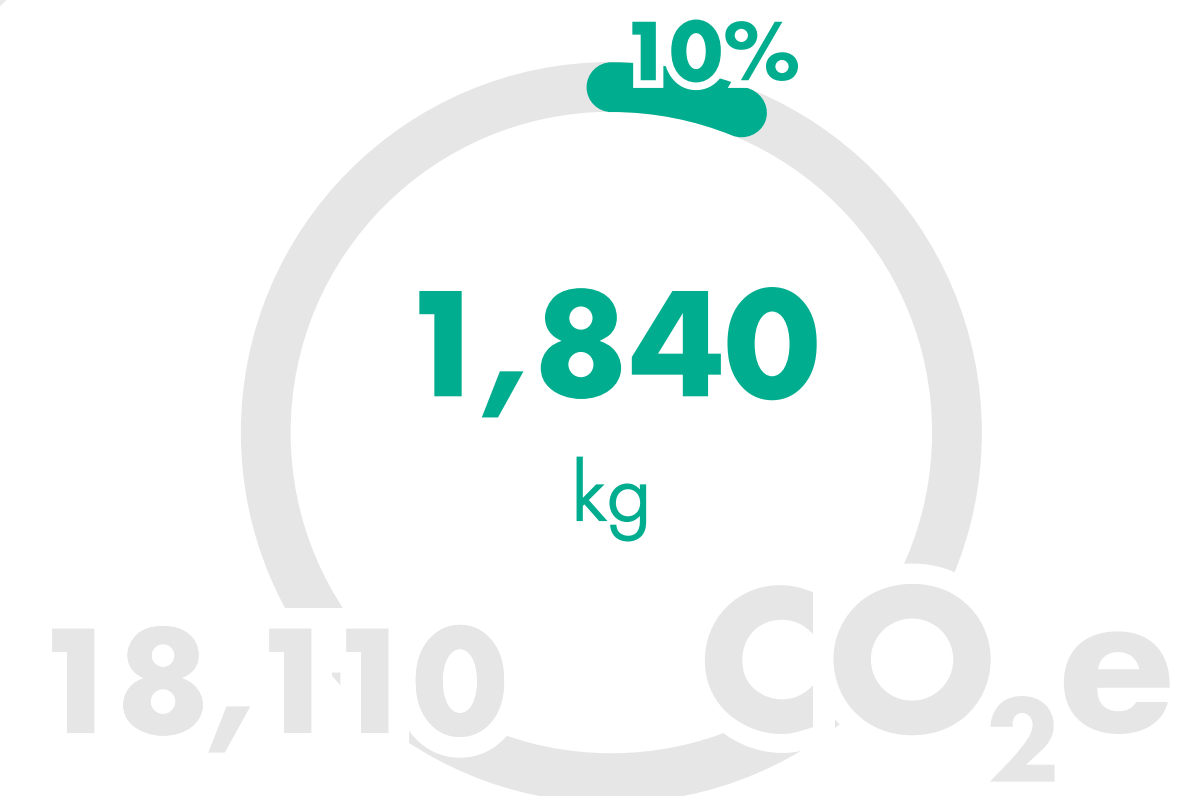
1,410 kg CO₂e

Water consumption

60 kg CO₂e

Toilet wastewater

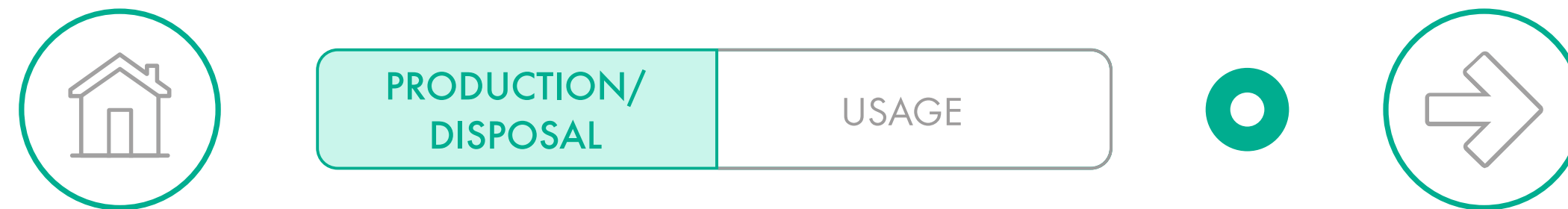
200 kg CO₂e

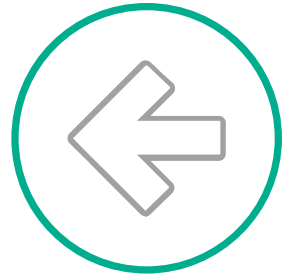


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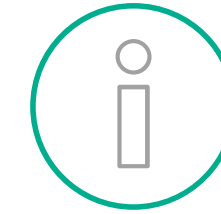
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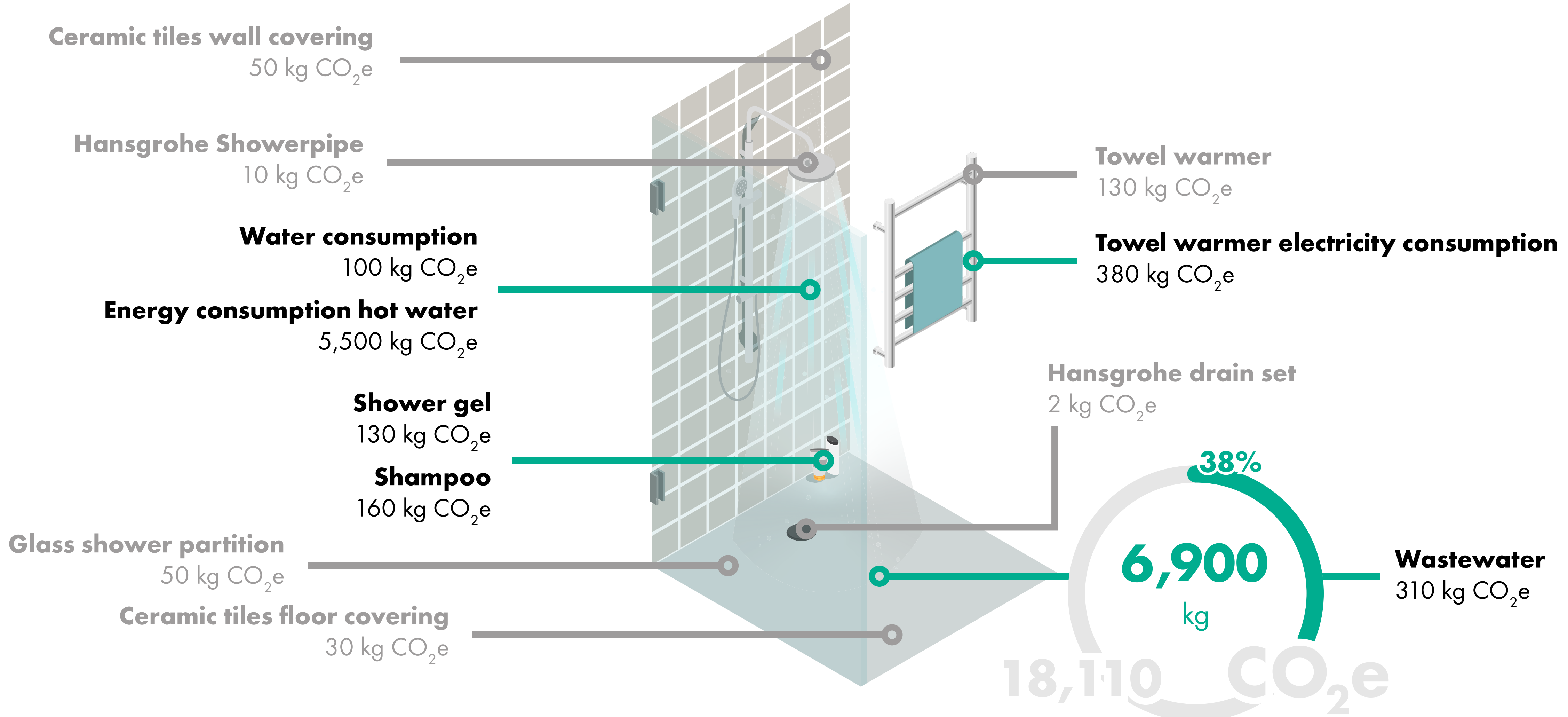




BACK



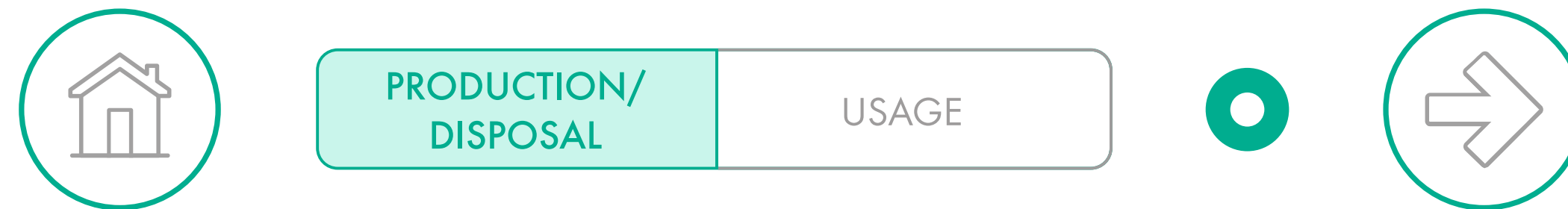
SHOWER

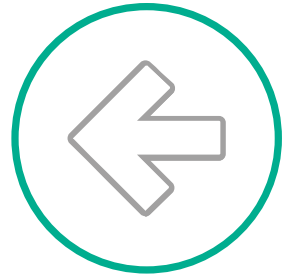


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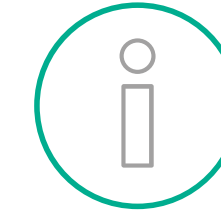
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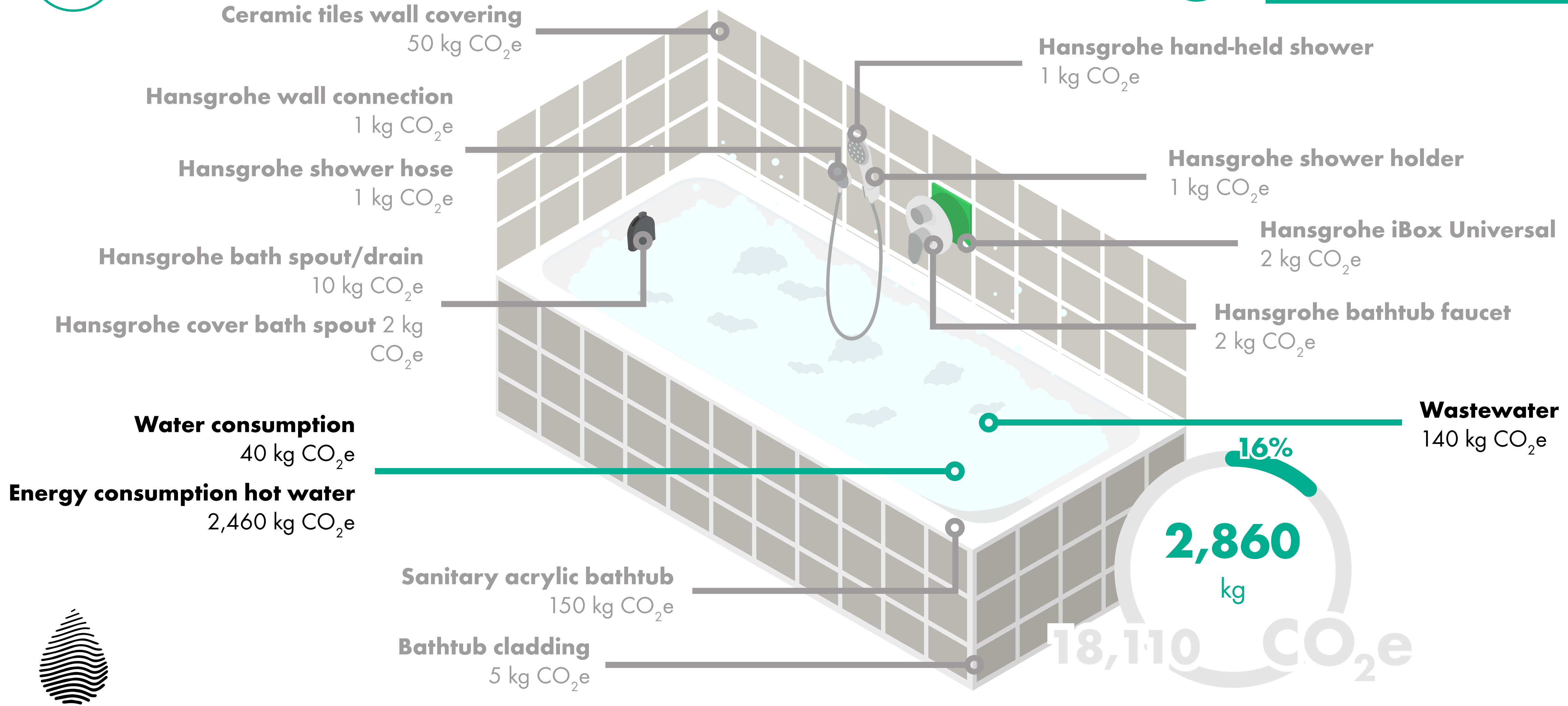




BACK



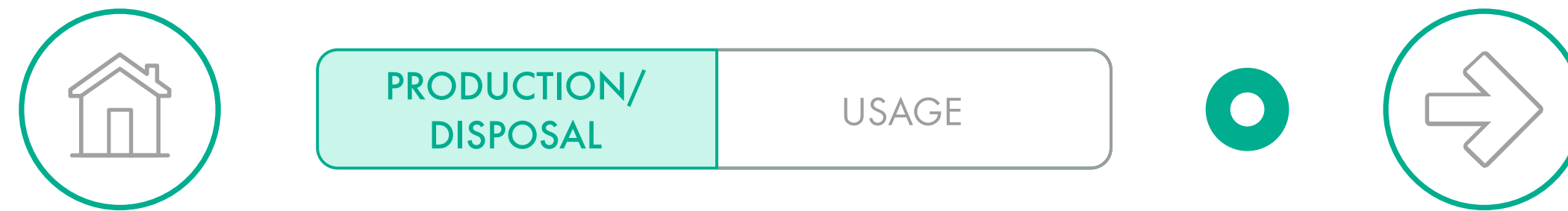
BATHTUB

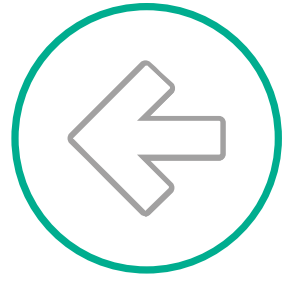


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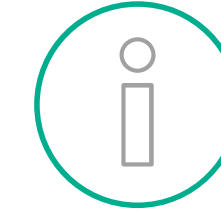
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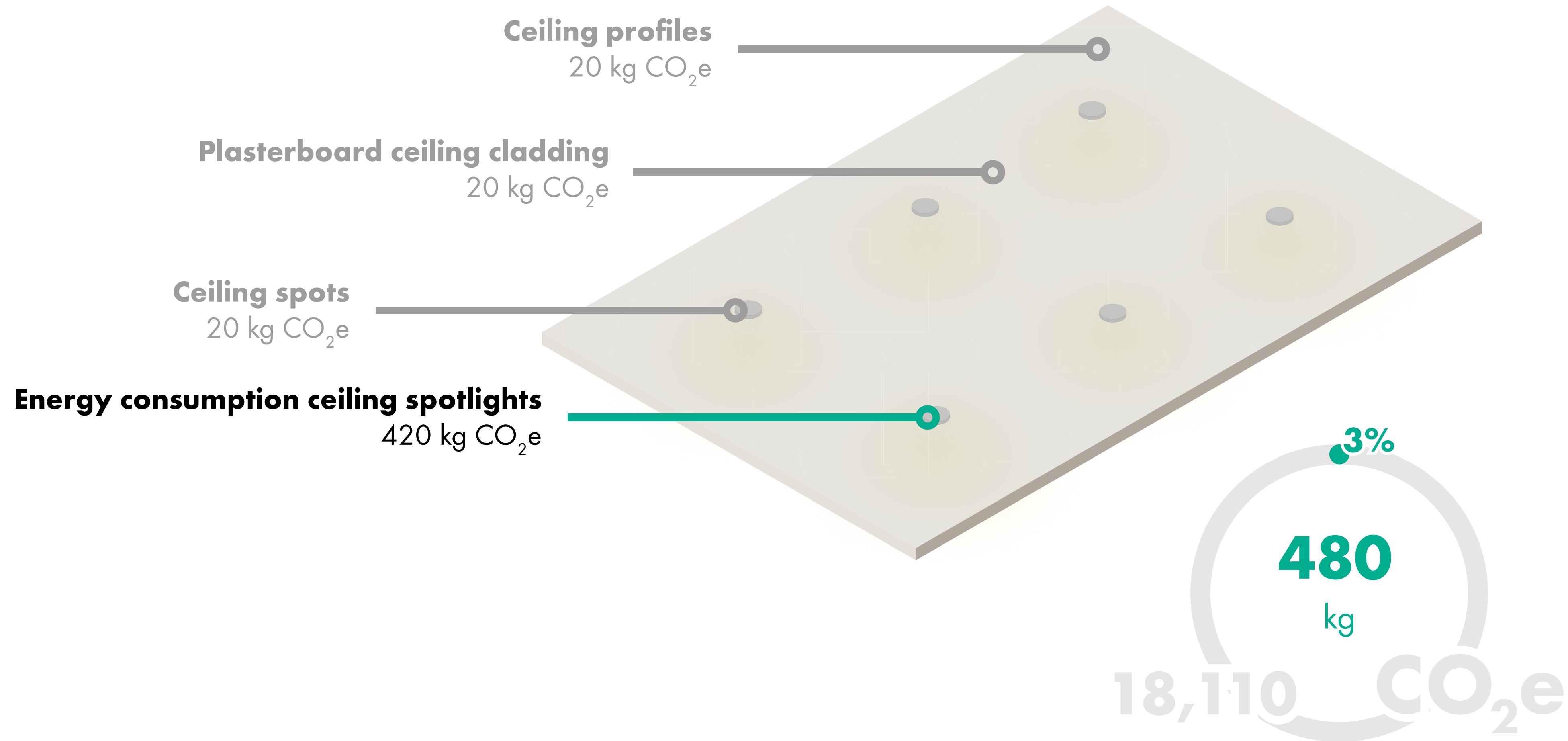




BACK



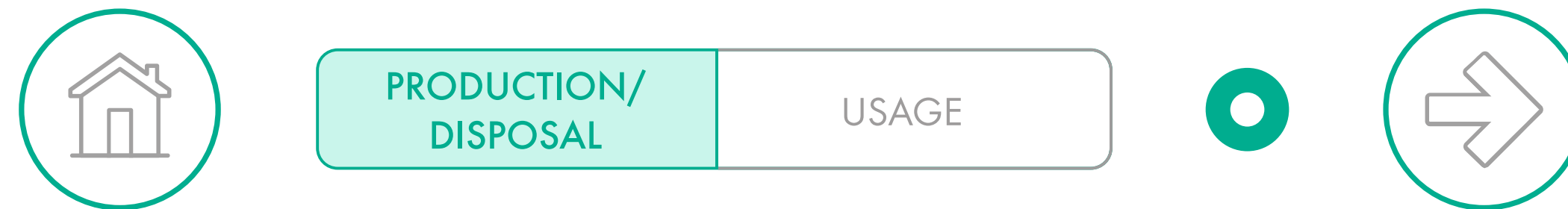
CEILING

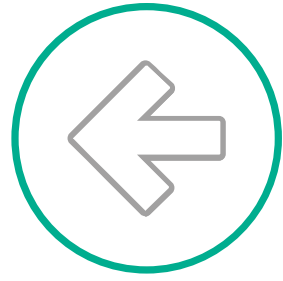


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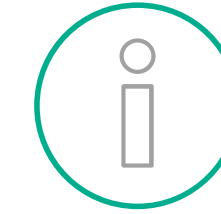
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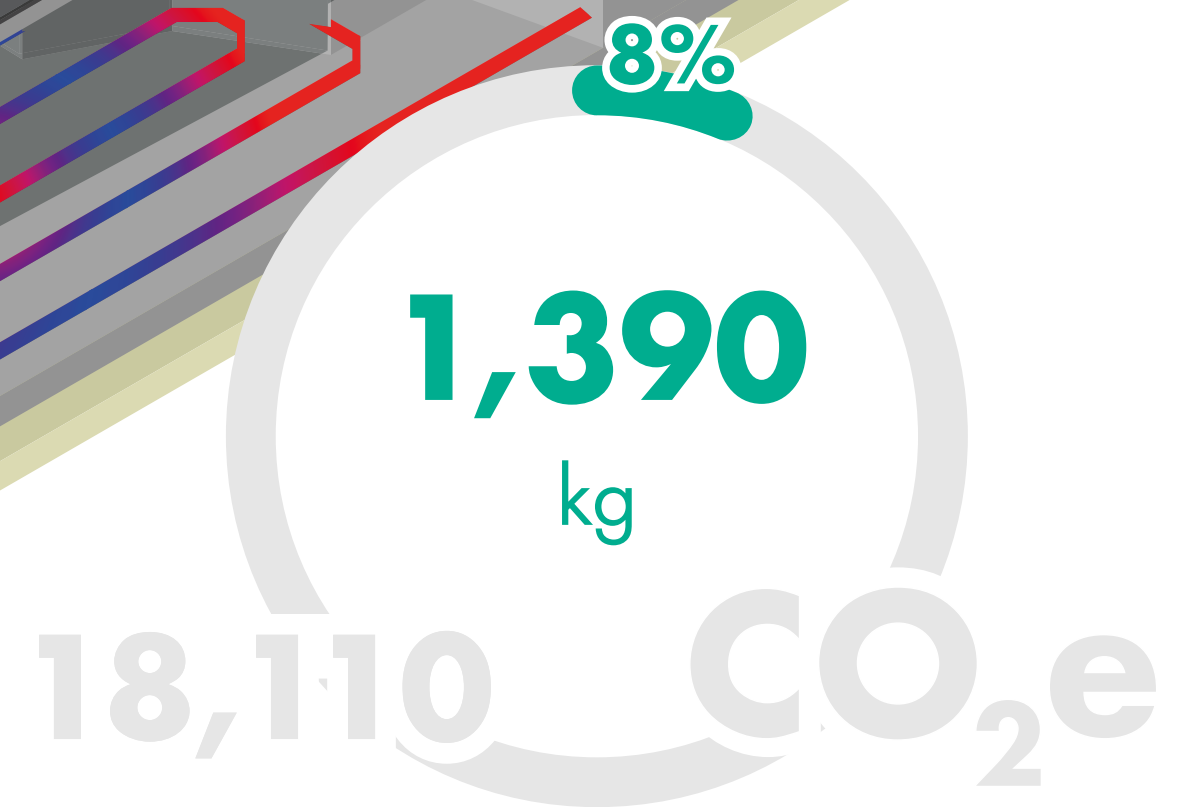
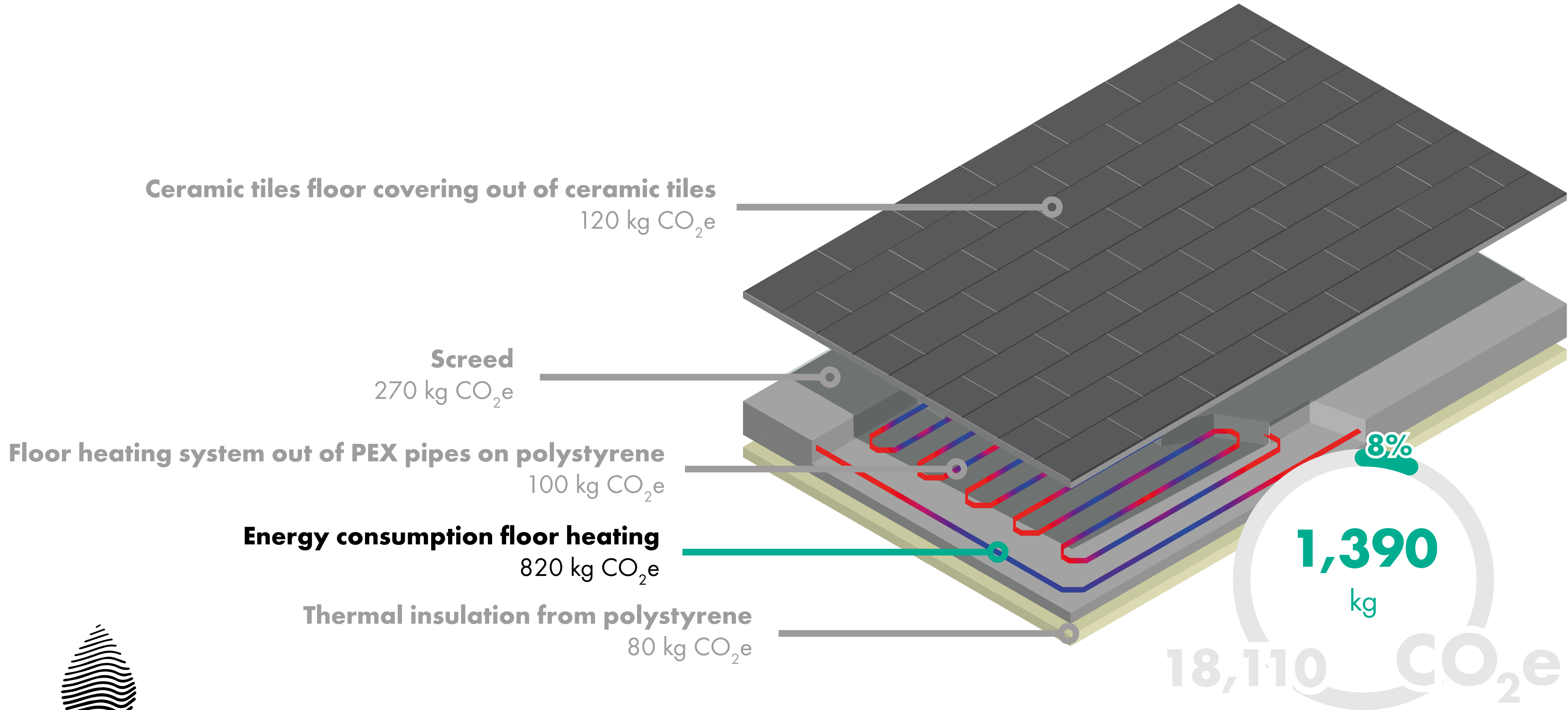




BACK



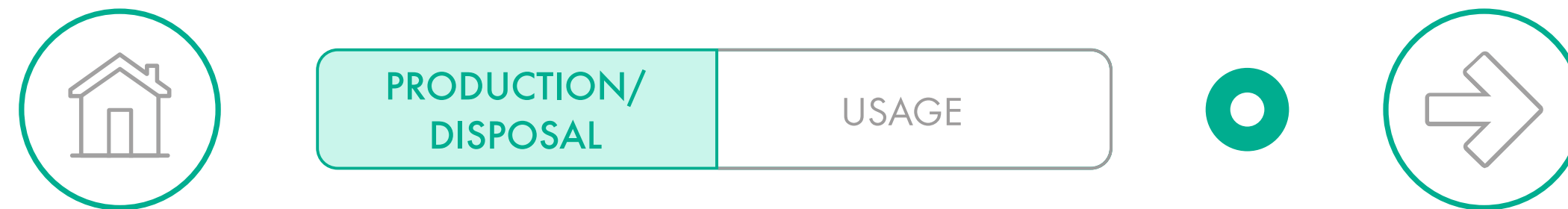
FLOOR

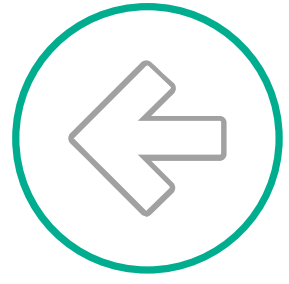


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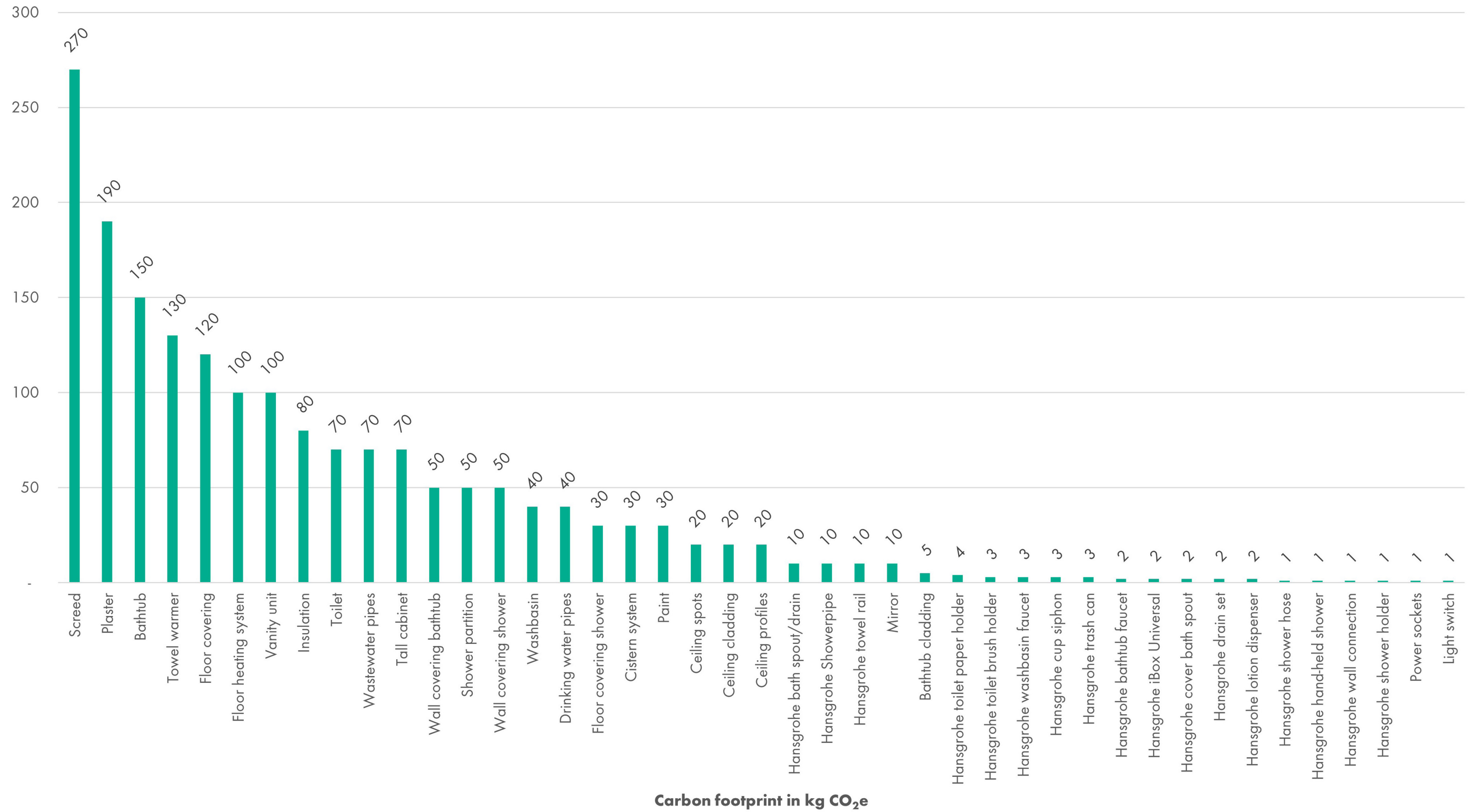
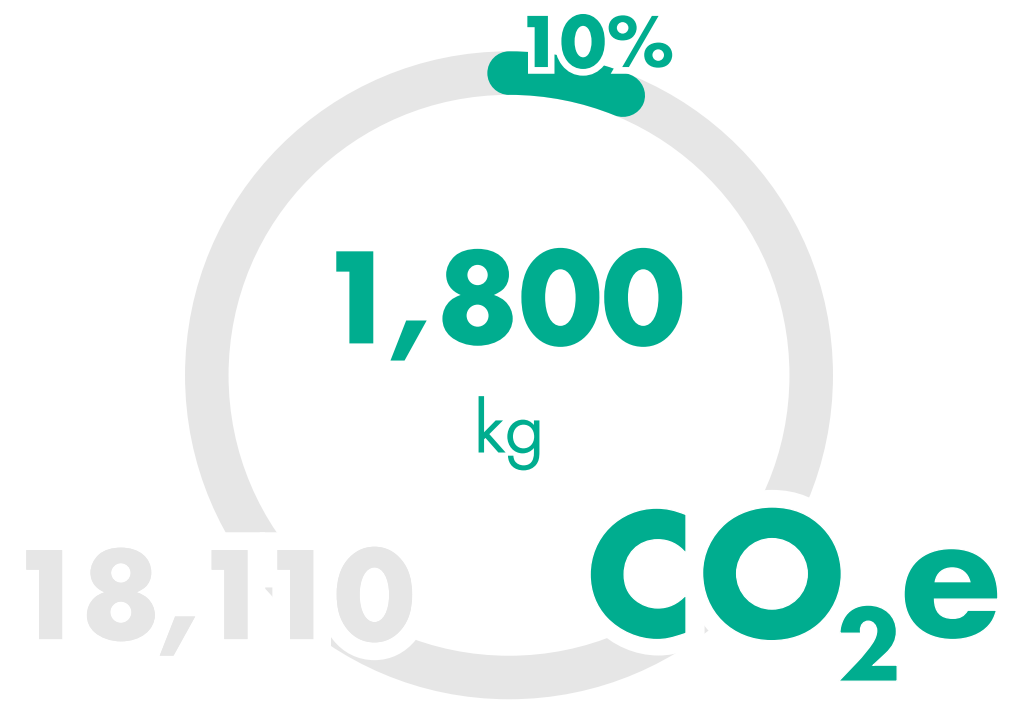
These are as follows:





BACK

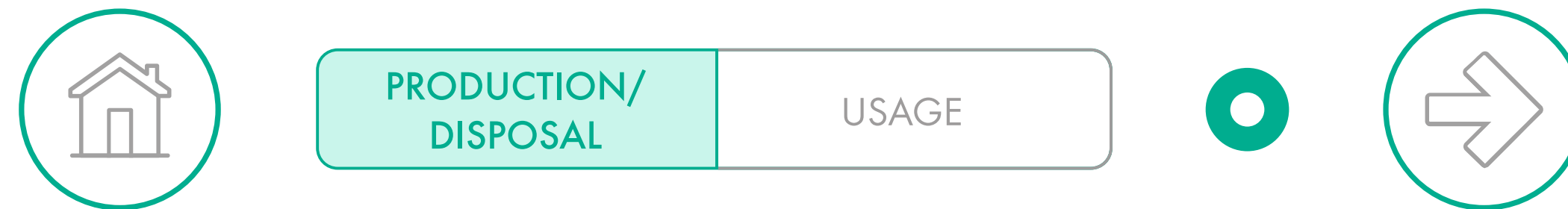
OVERVIEW

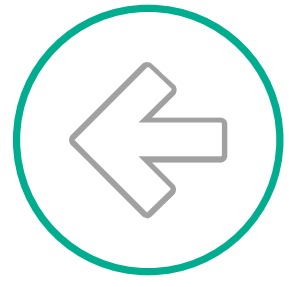


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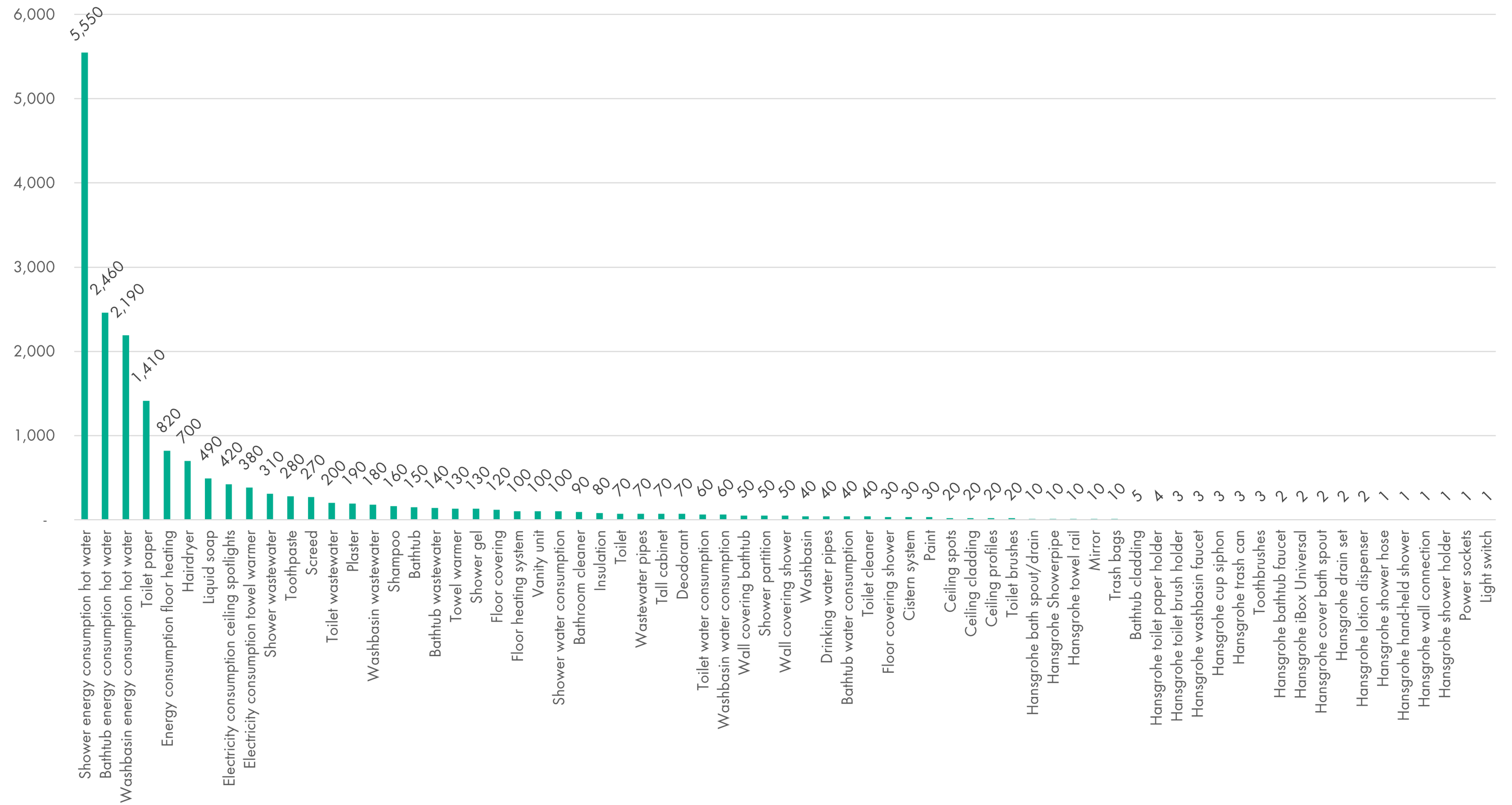
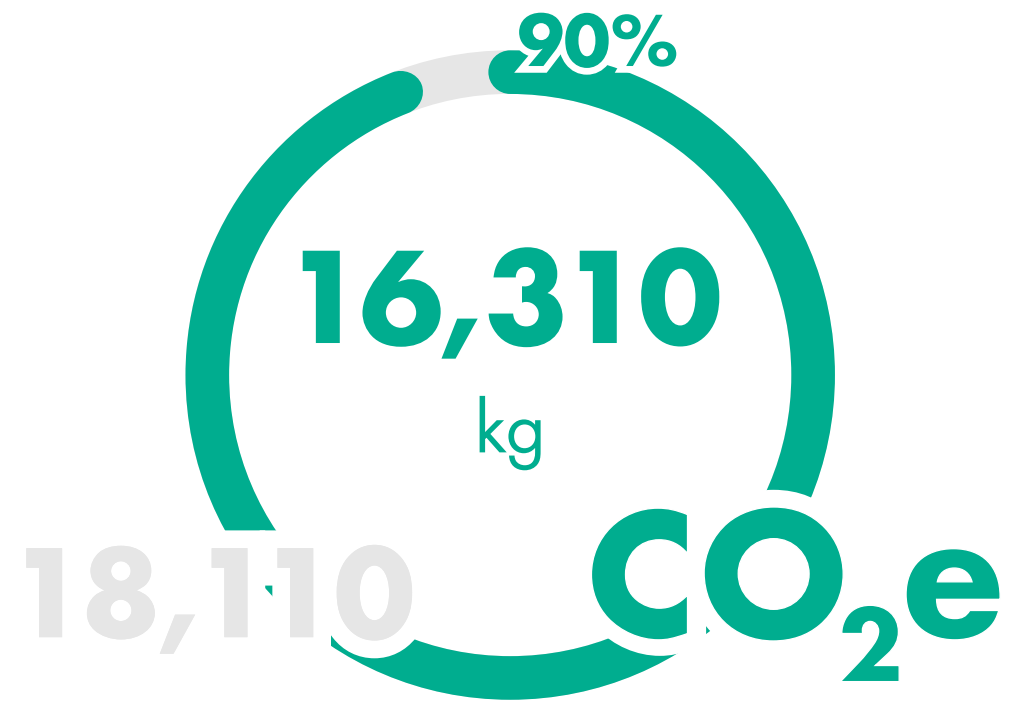
These are as follows:





BACK

OVERVIEW



Carbon footprint in kg CO₂e



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