

The footprint behind every NetZero Cycle product.

Draft EPD summaries for our mugs, T-shirts and stickers: what each product is made of, its indicative carbon footprint across the life cycle, and our path to carbon neutral. Use the calculator to estimate the carbon credits needed for your own order.

ISO 14025 · ISO 14040/44 · ISO 14067

Declared unit: 1 product

DRAFT · not yet third-party verified

⚠ This is a DRAFT EPD. It has not yet been verified by a third party or registered with an EPD program operator. Footprint values are indicative, based on published life cycle studies and material emission factors (sources on each tab), and will be replaced by our verified product LCA results. Carbon neutrality is our target for each product; credit retirement certificates will be attached to the final EPD.



NetZero Cycle Mug

7.5 kg CO₂e / mug

Whole life, including washing · indicative



NetZero Cycle T-shirt

5.4 kg CO₂e / shirt

Whole life, including washing · indicative



NetZero Cycle Sticker

0.020 kg CO₂e / sticker

Materials, printing and disposal · indicative

1

Measure

A life cycle assessment (ISO 14040/44) of each product, from raw materials to end of life.

2

Declare

Results published as an EPD following ISO 14025, with the footprint per product.

3

Reduce

Cut emissions in sourcing, production and shipping wherever we can.

4

Neutralize

Buy and retire verified carbon credits for the remaining emissions.



NetZero Cycle Coffee Mug

White ceramic mug printed with the NetZero Cycle mark. Most of its footprint comes from kiln firing during production and from washing during use.

CRADLE-TO-GATE

1.9 kgCO₂e per mug

WHOLE LIFE

7.5 kgCO₂e incl. washing

DRAFT STATUS

Carbon neutral

Target · to be confirmed in final EPD

Product information

Declared unit	1 ceramic mug, approx. 350 ml (12 oz)
Materials	Ceramic body, glaze, printed decoration
Brand	NetZero Cycle, Oakville, Ontario
System boundary	Cradle-to-grave (A1–C4)
Standards	ISO 14025, ISO 14040/44, ISO 14067
Program operator	To be confirmed
PCR	To be confirmed
Verification	Third-party verification pending
Valid until	Issued on verification

Where the emissions come from INDICATIVE

Use (washing)		~75%
Kiln firing		~20%
Materials, transport & packaging		~5%

Based on a published footprint of 1.9 kg CO₂e cradle-to-gate (about 80% from kiln firing) and 7.5 kg CO₂e over the mug's life. Source: [Ceramics Monthly](#), "Sustainable Steps".

Environmental indicators per mug

INDICATOR	UNIT	PRODUCTION (A1–A3)	DISTRIBUTION, USE & END OF LIFE (A4–C4)	TOTAL
Global warming potential (GWP-total)	kg CO ₂ e	1.9	5.6	7.5
GWP-fossil · GWP-biogenic	kg CO ₂ e		From product LCA	
Water use	m ³		From product LCA	
Acidification · Eutrophication	mol H ⁺ eq · kg P eq		From product LCA	

Path to carbon neutral

Measure

Footprint calculated per mug through a life cycle assessment.

Reduce

Lower-impact firing, packaging and shipping where possible.

Neutralize

Remaining emissions to be covered by retired carbon credits. **Certificates to be attached to the final EPD.**



NetZero Cycle T-shirt

Forest-green crew-neck tee with the NetZero Cycle chest print. Yarn and fabric production and home washing make up most of its footprint.

WHOLE LIFE

5.4 kg
CO₂e per shirt

PUBLISHED RANGE

5.4–9.2 kg
CO₂e, cotton tees

DRAFT STATUS

Carbon neutral

Target · to be confirmed in final EPD

Product information

Declared unit	1 adult T-shirt
Materials	Cotton jersey, printed chest graphic (fibre content to be confirmed)
Brand	NetZero Cycle, Oakville, Ontario
System boundary	Cradle-to-grave (A1–C4)
Standards	ISO 14025, ISO 14040/44, ISO 14067
Program operator	To be confirmed
PCR	To be confirmed
Verification	Third-party verification pending
Valid until	Issued on verification

Where the emissions come from INDICATIVE

Yarn manufacturing		~43%
Use (washing & drying)		~37%
Fabric manufacturing		~20%

Midpoints of published ranges: yarn 36–51%, use 31–48%, fabric 20%. Whole-life footprint of 5.4 kg CO₂e (organic cotton tee) to 9.2 kg CO₂e (conventional cotton). Sources: [Journal of Fiber Bioengineering and Informatics](#); [University of Pretoria](#); [FAO AGRIS](#).

Environmental indicators per T-shirt

INDICATOR	UNIT	PRODUCTION (A1–A3)	DISTRIBUTION, USE & END OF LIFE (A4–C4)	TOTAL
Global warming potential (GWP-total)	kg CO ₂ e		Split from product LCA	5.4
GWP-fossil · GWP-biogenic	kg CO ₂ e		From product LCA	
Water use	m ³		From product LCA	
Acidification · Eutrophication	mol H ⁺ eq · kg P eq		From product LCA	

Path to carbon neutral

Measure

Footprint calculated per shirt through a life cycle assessment.

Reduce

Lower-impact fibre, dyeing and shipping choices where possible.

Neutralize

Remaining emissions to be covered by retired carbon credits. **Certificates to be attached to the final EPD.**



NetZero Cycle Sticker

Round die-cut vinyl sticker, about 7.5 cm across. Small product, small footprint: most of it comes from the vinyl film, liner and printing.

WHOLE LIFE

0.020 kgCO₂e per sticker

PER 100 STICKERS

2.0 kgCO₂e

DRAFT STATUS

Carbon neutral

Target · to be confirmed in final EPD

Product information

Declared unit	1 round sticker, approx. 7.5 cm
Materials	Printed vinyl (PVC) film, adhesive, paper release liner
Brand	NetZero Cycle, Oakville, Ontario
System boundary	Cradle-to-grave (A1–C4)
Standards	ISO 14025, ISO 14040/44, ISO 14067
Program operator	To be confirmed
PCR	To be confirmed
Verification	Third-party verification pending
Valid until	Issued on verification

How the estimate is built INDICATIVE

COMPONENT	APPROX. WEIGHT	KG CO ₂ E
Vinyl (PVC) film, 2.94 kg CO ₂ e/kg	0.5 g	0.0015
Liner, adhesive, inks, printing & cutting energy, packaging, disposal	–	allowance
Rounded total per sticker		0.020

PVC emission factor: [UK Government conversion factors via Climatiq](#). The total includes a deliberately generous allowance for the other components until the product LCA is complete.

Environmental indicators per sticker

INDICATOR	UNIT	PRODUCTION (A1–A3)	DISTRIBUTION, USE & END OF LIFE (A4–C4)	TOTAL
Global warming potential (GWP-total)	kg CO ₂ e		Split from product LCA	0.020
GWP-fossil · GWP-biogenic	kg CO ₂ e		From product LCA	
Water use	m ³		From product LCA	

Path to carbon neutral

Measure

Footprint calculated per sticker from materials, printing and disposal.

Reduce

Efficient sheet layouts to cut vinyl and liner waste.

Neutralize

Remaining emissions to be covered by retired carbon credits. **Certificates to be attached to the final EPD.**