

Benefits of EPDs and LCAs



ENVIRONMENTAL PRODUCT DECLARATION

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What is an EPD?

An Environmental Product Declaration (EPD) is based on a product Life Cycle Assessment (LCA)

Provides **environmental performance data** (including embodied carbon) over the products life cycle

An EPD is independently **verified** to ISO14025 and EN 15804 for building & construction products

An EPD demonstrates an organisation's commitment to sustainability and transparency



ENVIRONMENTAL PRODUCT DECLARATION
THIRD-PARTY VERIFIED to ISO 14025 and EN 15804

Australian hardwood

1m³ dressed kiln-dried

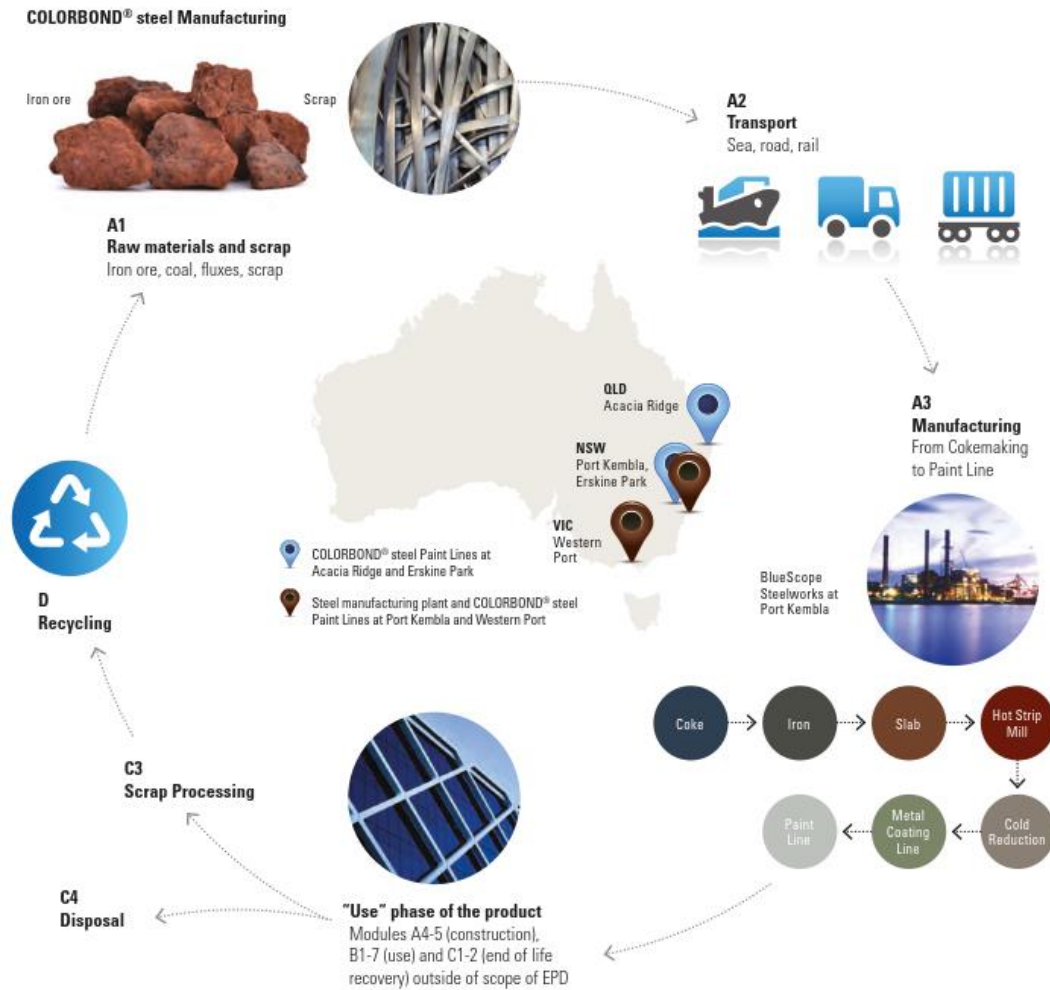
ENVIRONMENTAL IMPACTS	TOTAL
Global Warming - Climate Change (kg CO ₂ eq.)	-670
Ozone Depletion (kg CFC11 eq.)	1.21E-09
Acidification - Acid Rain (kg SO ₂ eq.)	3.58
Eutrophication - Algal Blooms (kg PO ₄ ³⁻ eq.)	0.79
Smog Forming Potential (kg C ₂ H ₄ eq.)	3.05
Mineral Resources (kg Sb eq.)	5.14E-05
Fossil Energy Resources (MJ)	5.24E+03

EPDs: Environmental impacts

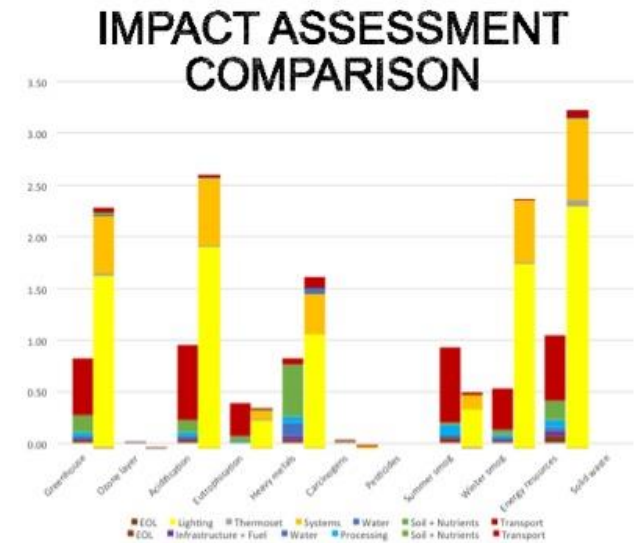
- **Energy:** the amount of energy used to produce a product, proportion of renewable energy.
- **Carbon:** the amount of carbon emitted (i.e., carbon footprint)
- **Impacts of emissions:** the potential impact of emitted substances such as gases, liquids and particles (e.g., in depleting ozone, acidifying waterways, corroding buildings, and causing algae in waterways)
- **Other env. info:** materials circularity indicator (MCI), recycled content

ALL DATA IS INDEPENDENTLY VERIFIED

EPD: Product life cycle



Using EPD data to inform design and construction



Latest EPDs



Holcim ViroDecs™ Special – Ready-mix concrete – Victoria – ECOPact Range
HOLCIM (AUSTRALIA) PTY LTD

EPD



Asphalt in New Zealand

DOWNER

EPD



Asphalt in Australia

DOWNER

EPD



Hirock Aggregates

HIROCK

EPD



GALVSPAN® steel

BLUESCOPE

EPD



GALVABOND® steel

BLUESCOPE

EPD

About EPD Australasia

- **A joint venture of Australian and New Zealand Life Cycle Assessment (LCA) professionals**
- **We register and publish Environmental Product Declarations (EPDs) for Australian and New Zealand businesses**
- **We assess and approve independent EPD verifiers**
- **We are a regional partner of the International EPD System and aligned with the EU EPD ECO Platform**



Key People

**Stephen Mitchell**

EPD Australasia Director

Principal Consultant,
Stephen Mitchell Associates**John McArthur**

EPD Australasia Director & Chair

Managing Director,
The Carbon Shop**Kelly Taylor**

Programme Manager

**Cyril Giraud**

EPD Australasia Director

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Holcim Australia New Zealand**Sam Archer**

EPD Australasia Director

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New Zealand Green Building Council**Andrew D. Moore**

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EPD Australasia Director

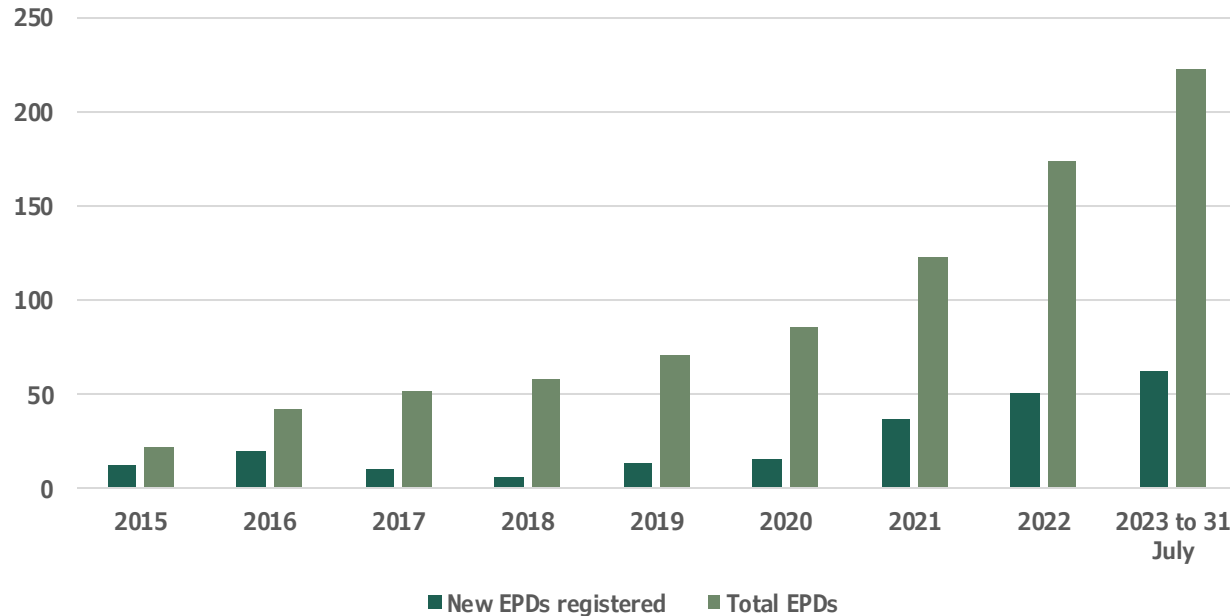
Head of Strategy and Impact NZ,
thinkstep-anz**Stephen Mitchell**

Advocacy & Marketing

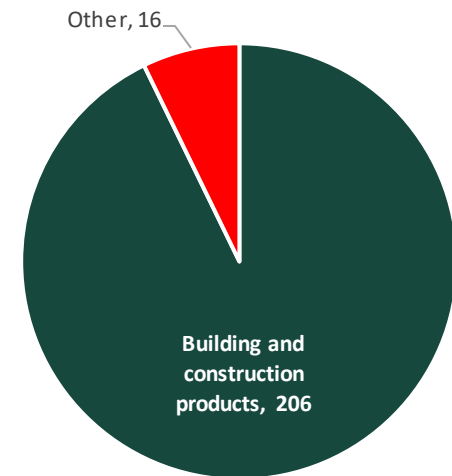
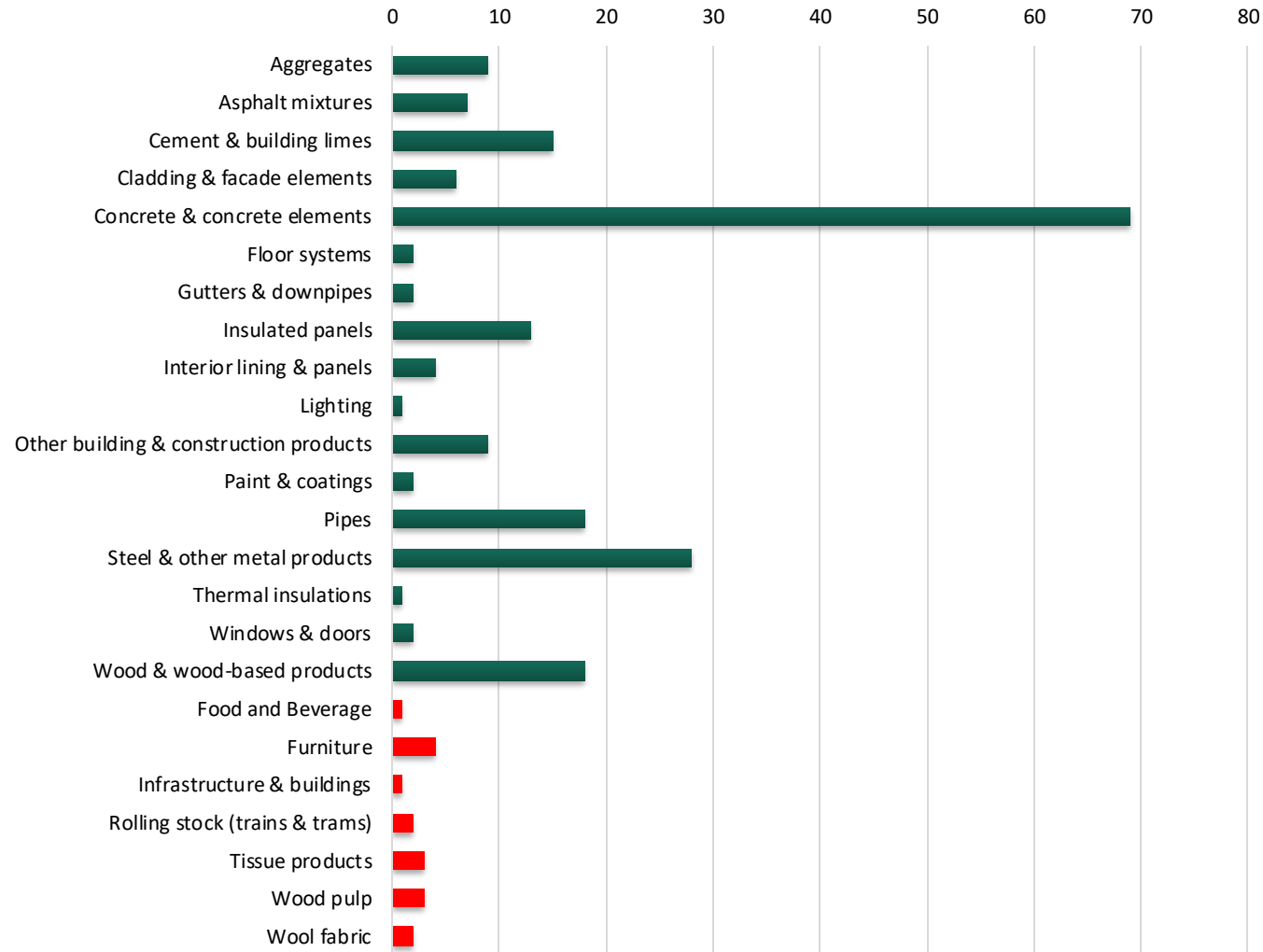
EPD Australasia growth & membership

- 92 organisations, 220 EPDs, >1,000 products

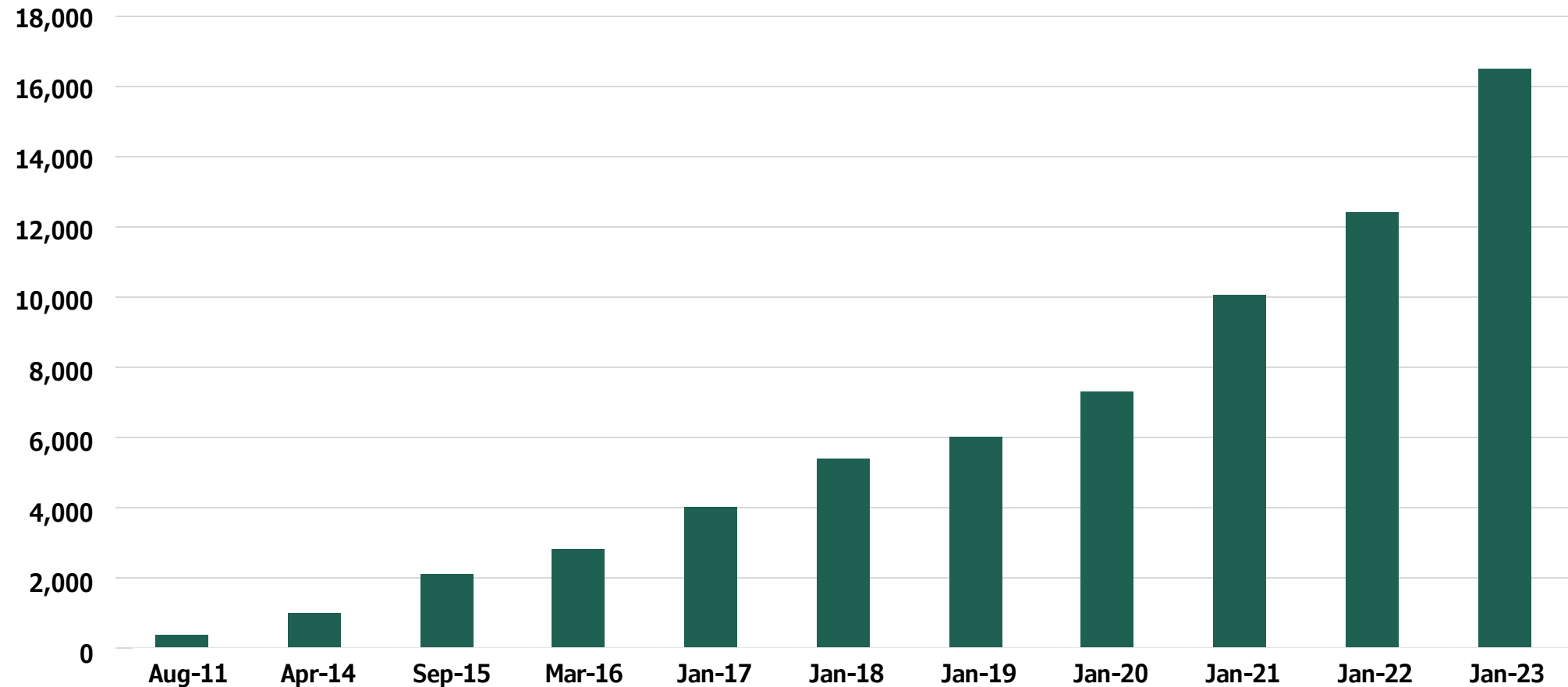
EPD Registrations - per year and cumulative



Australasia EPDs by category

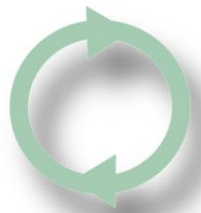


EPD growth worldwide

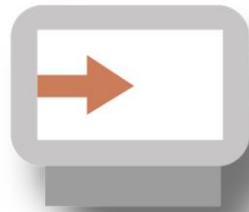


Based on data collected by Jane Anderson / ConstructionLCA available from <https://infogram.com/constructionlca-2023-guide-to-epd-1h0n25yvdgz716p>

EPD development



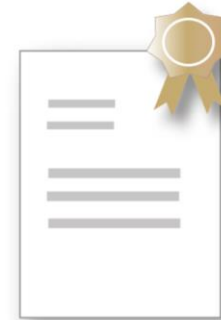
**Conduct a life
cycle assessment**



**Transfer LCA
results into EPD
format**



**Independent
verification of
LCA and EPD**



**Registration and
publication of
your EPD**

Who can develop an LCA and EPD for your product?



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Thank you



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