LCANZ AGM 2024

LCANZ Life Cycle Association New Zealand

9/13/2024

AGM (15:00-16:00)

Agenda

- 15:00 Welcome and housekeeping
- 15:05 Acceptance of previous minutes
- 15:10 President's report
- 15:20 Treasurer's report
- 15:30 Confirmation of Committee elections
- 15:35 LCANZ Updates
 - Best Practice Working Group
 - Professional Development
- 15:45 EPD Australasia Update
- 15:50 General Business
- 16:00 Close

Presentations (16:00-17:00)

Studio Pacific Architecture
Navigating Carbon Assessment and LCA in
the Architectural Design Process

Madeline Furness

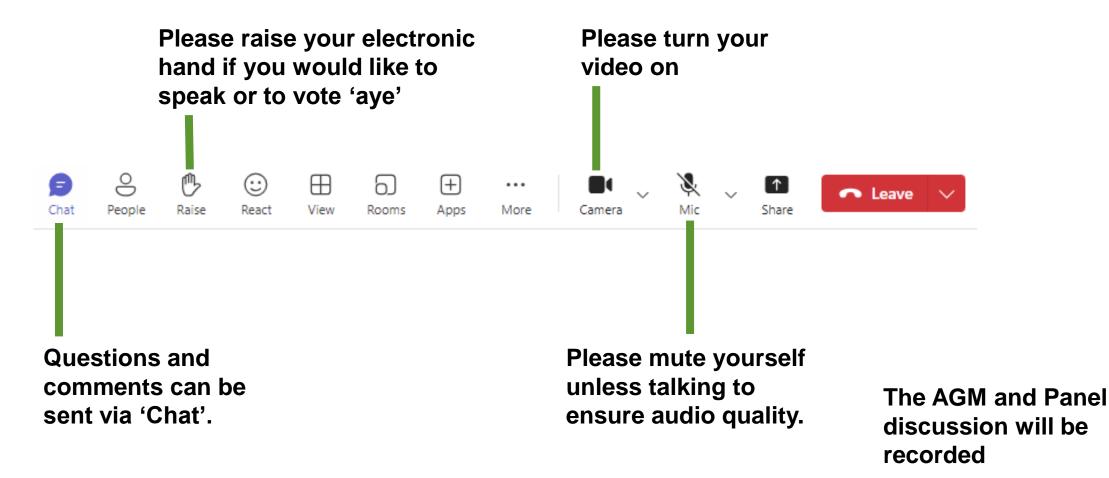
Quantifying Life Cycle Sustainability Impacts of the Wastewater Circular Economy in Chile

Networking (17:00-18:00)



Teams meeting housekeeping





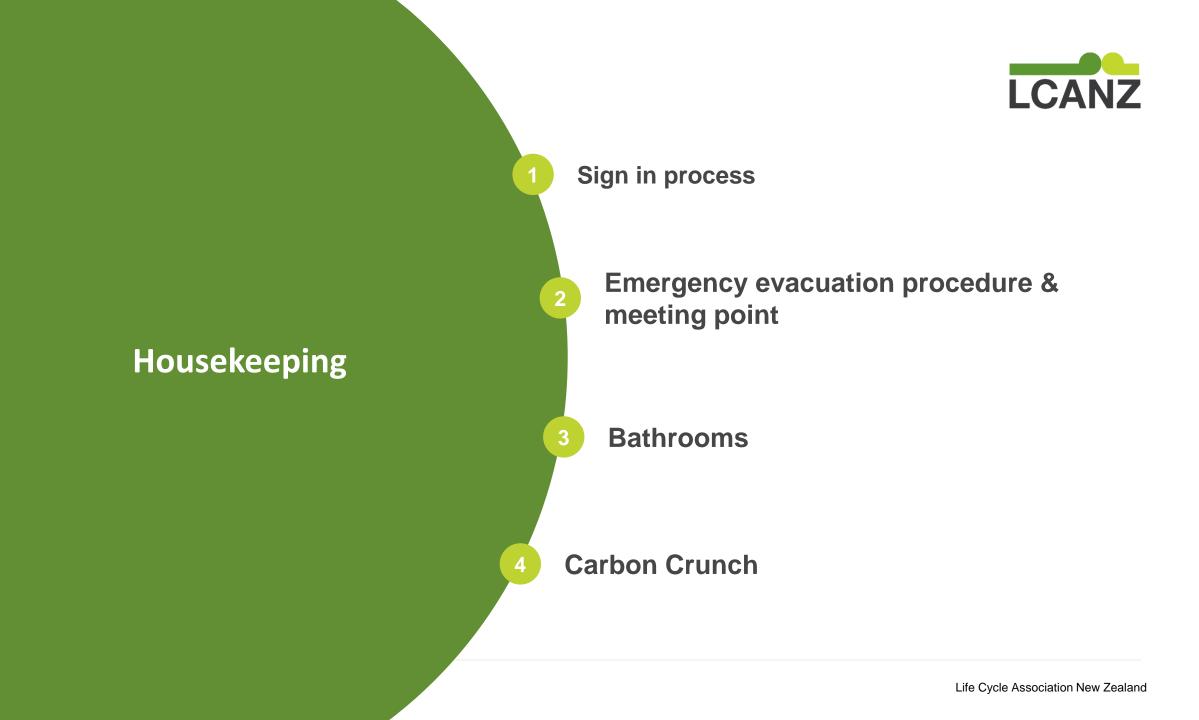
He Takutaku

A Māori incantation

Tuia ki te rangi, Tuia ki te papa, Tuia ki te moana, Tuia ki te ira tangata. Ka rongo te po, Ka rongo te ao, Haumi e, Hui e, TĀIKI e!

Bind to the skyfather, Bind to the earthmother, Connect to the sea, Connect all mankind. Heard by the spiritual realm, Heard by the physical realm, Join, gather and exclaim, it is done!





Aotearoa Carbon Crunch Hosted by Mott MacDonald

Aotearoa Carbon Crunch will connect the infrastructure value chain in a collaborative effort to speed up the delivery of low carbon infrastructure.

Don't miss out on this industry discussion focussed on governance and procurement with insights from one of New Zealand's largest infrastructure projects, City Rail Link. We will also share practical steps and foster collaboration needed to solve one of the most critical challenges of our time.

Event Details

171 Halsey Street

Join online or attend in person

Auckland CBD, Auckland 1010

Agenda

From 7:00am - Arrival, tea and coffee

7:30am - Welcome & opening karakia

- Setting the Scene
- Governance and decision making
- Innovation in construction and design
- Panel discussion and Q&A •
- **Closing remarks** •
- Closing karakia •

9:45am - Networking

10:15am - Event ends





carbon crunch Auckland - 2024



Steering Committee Member

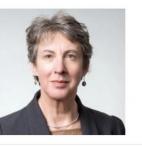


Carolyn Cox

City Rail Link

Sustainability Manager

Kaiwhakahaere Rauora





Dr Kerry Griffiths IS Technical Director Infrastructure Sustainability Council

Amanda Bryan NZ Sustainability Lead Mott MacDonald



Abby Foote

Chapter Zero

Nick Dempsey Upper North Island Manager Water Mott MacDonald









Sustainability & Market Development Manager New Zealand Steel

Rachel Blake Environmental Manager Brian Perry Civil



Aotearoa Carbon Crunch | Humanitix

Rakino Room, Viaduct Events Centre

Key contacts

Register

- Nick Carman, Mott MacDonald
- Sophie Ciurlionis, Mott MacDonald



Acceptance of previous minutes

LCANZ Life Cycle Association New Zealand

President's Report

Barbara Nebel

LCANZ Life Cycle Association New Zealand

Life Cycle Association New Zealand

Summit

Supporting





Profiles

MEMBER PROFILE

Massey University of New Zealand – Te Kunenga ki Pūrehuroa

COMMITTED TO SUPPORTING THE DEVELOPMENT OF LIFE CYCLE THINKING IN NEW ZEALAND

Massey University is committed to facilitating the use of Life Cycle Assessment (LCA) in New Zealand to support robust decision-making and to underpin good economic and environmental outcomes.

The University is also committed to the Carbon Neutral Government Forgramme, under the leadership of Associate Director, Sustainability, Policy and Comms, Dr Allanah Ryan. A goal of the Massey Climate Action Plan (CAP) is to be Net Zero Carbon by 2330. We have a five-pronged programme to embed reduction of greenhouse gas emissions into all areas of the University's business and business case development, to build and operate low carbon buildings, set targets for low-carbon mobility (transport, develop ot transition plan towards sustainable agriculture, and divert 90% of our waste from landfill by 2300.

As part of our CAP we work closely with external partners to share our knowledge and to research practical solutions to meet the challenges of climate change. Two areas of focus that play off our strengths include low carbon cities and climate smart farming.



Page 1



Massey University hosts the New

Zealand Life Cycle Management Centre (NZLCM Centre), a collaboration between Massey University, AaResearch, Landcare Research, Plant & Food Research and SCION to build capability in Life Cycle Management through education, training and research. The University offers tertiary education courses in Life Cycle Thinking at undergraduate level, Life Cycle Assessment (LCA) at post-graduate level, and offers supervision for PhD scholars specialising in Life Cycle Management research. It also offers a professional development short course in LCA for business decision-makers.

BENEFITS OF LCANZ MEMBERSHIP

LCANZ membership provides an invaluable forum to network with professionals working in LCA research and application, and to share information about Massey's courses and research projects. As other tertiary institutes also start to offer courses in LCA and LCM, it would be good to see LCANZ develop targeted networking opportunities for students across the different educational institutions working in this field.

May 2024



Kelly McClean

Kelly works at international design, engineering and advisory firm Aurecon, applying circular economy and systems design approaches to a range of projects.

She is a member of Aurecon's global circular economy team and involved in a number of projects spanning government agencies, including the Ministry of Business, Innovation & Employment (MBIE) and Waka Kotahi New Zealand Transport Agency, and New Zealand industry. For example, the team is a member of a consortia of organisations working with MBIE to provide an evidence base to support the development of a circular economy and bioeconomy strategy for New Zealand as part. of a wider national emissions reduction plan.

Kelly is leading advisory work on advanced manufacturing emissions and waste mapping, and researching opportunities to progress a low carbon circular economy. She is also involved in infrastructure deconstruction (end-of-life) planning, waste minimisation and behaviour change advisory work, and the investigation of circular precincts which involves the co-location of facilities across the supply chain.

Kelly brings both an academic and practical understanding of design to tile cycle analysis and circular economy strategies. She has a Masters of Design from Massey University's College of Creative Arts, where she was C Callaghon Innovation Fellow, and a decade of experience in the NZ textiles, manufacturing, agriculture, FMCG and packaging sectors.

This gives her a strong interest in how life cycle assessment can be used and communicated to decision-makers at the early stages of design or to inform practice change over time.

"It's really important that a whole-of-life perspective is applied in practical ways to harness the power of design." says Kelly.

"We live on a planet with finite resources. Part of being a good citizen is making sure we design circular systems that help people and the planet. We're not there yet. There are glimmers of hope, but we've got a long way to go."

F



Kelly is a creative problem-solver with a background in materials, design and research. She uses a collaborative and design-led approach when tackling sustainability and innovation projects, with experience in sectors such as film, manufacturing, textiles, agriculture, FMCG and infrastructure. Kelly is part of Aurecon's Circular Economy team the co-founder of social enterprises Commonkind and Reuse Aoterana.

BENEFITS OF LCANZ MEMBERSHIP

Kelly has been an LCANZ committee member since 2018 and co-chairs its Best Practice Working Group. She is dedicated to building a life cycle community and to developing government and industry knowledge to help transition New Zealand from a linear 'take-make-dispose' economy into a circular economy to turn a vision of sustainability into a reality. Her focus has been on how LCA information can be of value to non-experts, especially at the design stage.

May 2024

Page 1



Over the past 15 years we...



- Held 8 LCA conferences, and a webinar series when COVID prevented us getting together in person
- Launched EPD Australasia, together with ALCAS
- Introduced a Certification programme for LCA experts
- Issued guidance papers for Best Practice
- Provided Case Studies with examples of LCA in practice in New Zealand
- Provided submissions to government policies
- ...and recently launched the LCA mentoring programme



Professional Development Committee LCANZ

- Emily Townsend (chair)
- Barbara Nebel
- John McArthur
- Kelly McClean
- Gaya Gamage

Thank you!





Financial report FY 2024

John McArthur

LCANZ Life Cycle Association New Zealand

Annual Financial Statements for the year to 31st May 2024

For the year ended 31st May 2024

| | Notes | 2024 | 2023 | 2022 | _ |
|------------------------------|-------|---------|----------|----------|-----|
| INCOME | | \$ | \$ | \$ |] N |
| Subscriptions | | 15,587* | 16,327 * | 13,760 * |] . |
| Conference / Workshop income | | 4,800 | 3,040 | 0 |] . |
| LCACP Application fees | 4. | 907* | 232 * | 225 | |
| Interest | 5 | 3,737 | 597 | 26 | |
| Tax Refund | | 156 | 8 | 0 |] • |
| Total Income | | 25,187 | 20,204 | 14,011 | |

Notes:

- Subscriptions normal
- Summit income up 57%
- 4 LCACP applications
- Interest increase from term deposit

EXPENSES

| Administrative services | 3, 4, 6 | 2,621 | 223 | 225 |
|------------------------------------------|---------|--------|-------|-------|
| Website Development and Fees | 7. | 690 | 621 | 759 |
| Conference / AGM / workshop expenses | | 6,001 | 6,864 | 0 |
| Representation (& Strategic Development) | | 2,133 | 56 | 0 |
| Communication / networking | 8. | 5,446 | 1,043 | 2,027 |
| Bank Fees | | 105 | 145 | 103 |
| RWT Tax | 5 | 1,233 | 197 | 9 |
| Tax Payment | | 0 | 0 | 74 |
| Total Expenses | | 17,071 | 9,148 | 3,196 |

- Admin increase to service LCACP and pay for admin of subscriptions and communications
- Representation President to ALCAS conf.
- Communications member profiles
- Bank fees include Credit card fees that are paid in the subscriptions and LCACP application fees.
- Resident Withholding Tax increased due to term deposit yield.

| | Net Surplus (Deficit) | | 6,957 | 11,056 | 10,815 |
|--|-----------------------|--|-------|--------|--------|
|--|-----------------------|--|-------|--------|--------|



Annual Financial Statements for the year to 31st May 2024

Statement of Movement in equity

| | • | 2024 | 2023 | 2022 |
|-----------------------------|---|--------|--------|--------|
| | | s | \$ | \$ |
| EQUITY AT START OF THE YEAR | | 66,404 | 55,348 | 44,533 |
| Net Surplus (Deficit) | | 6,957 | 11,056 | 10,815 |
| EQUITY AT END OF THE YEAR | | 73,361 | 66,404 | 55,348 |

| | Note | 2024 | 2023 | 2022 |
|------------------------|------|--------|--------|--------|
| CURRENT ASSETS | | S | \$ | \$ |
| Westpac cheque account | | 11,010 | 6,404 | 55,348 |
| Westpac term deposit | | 62,351 | 60,000 | 0 |
| Total Current Assets | | 73,361 | 66,404 | 55,348 |

CURRENT LIABILITIES

| Contingent liabilities | 1. | 0 | 0 | 0 |
|------------------------|----|--------|--------|--------|
| Trade Creditors | 2. | 0 | 0 | 0 |
| | | | | |
| NET ASSETS | | 73,361 | 66,404 | 55,348 |

Notes:

- Mentoring programme initiated early this year has not yet required any funding.
- Current (6th September) bank accounts stand at
 - Operating a/c \$21,723
 - Term deposit \$62,973

Any questions?

I move that the annual accounts be accepted.

John McArthur, Treasurer





| <u>Category</u> | 11 th September 31/05/2023 | | <u>31/05/2022</u> | <u>31/05/2021</u> | Subscription | % paid up (Invoiced 1 st July) |
|-----------------------|---------------------------------------|-----|-------------------|-------------------|--------------|----------------------------------------------|
| Corporate: | 36 | 39 | 38 | 39 | \$360 | 81% |
| Corporate Associates | 58 | 50 | 50 | 57 | - | |
| Individual: | 24 | 25 | 25 | 22 | \$120 | 83% |
| Students | 12 | 9 | 8 | 7 | \$40 | 58% |
| | | | | | | |
| MailChimp circulation | 289 | 257 | 257 | 235 | | |

Committee Elections

Barbara Nebel

LCANZ Life Cycle Association New Zealand

Voting Results



Our new and returned committee members are:

- Sophie Ciurlionis
- Joanne Duncan
- Tim Kleier
- Israel MacDonald
- Ray Mohan
- Neil Watson

LCANZ Updates

LCANZ Life Cycle Association New Zealand

Best Practice Working Group

Kelly McClean and Ray Mohan

LCANZ Life Cycle Association New Zealand

About BPWG

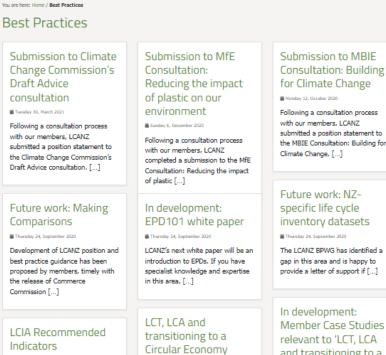


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Q



Wednesday 1, March 2017

Life Cycle Impact Assessment (LCIA) Life Cycle Impact Assessment (LCIA) translates resource use and emissions into potential environmental impacts. In [...]

white paper

Saturday 1, August 2020 Life Cycle Thinking (LCT) and Circular Economy (CE) are complementary concepts that can help shape a more sustainable

world, CE [...]

and transitioning to a Circular Economy white paper Saturday 1, August 2020

LCANZ welcomes member case studies relevant to 'LCT, LCA and

transitioning to a Circular Economy white paper. These will be [...]

Current working group members

- Kelly McClean (co-chair) ٠
- Ray Mohan (co-chair) •
- **Jeff Vickers** •
- Indika Herath •
- Jackson MacFarlane •
- Joanne Duncan •
- Gaya Gamage ٠
- Sachini Weerasinghe •
- Nathan Palairet •
- Sateesh Pisini •



Aim



To provide best practice guidance supporting the application of life cycle approaches in Aotearoa New Zealand

- Welcome to Ray Mohan, Edge Impact as BPWG co-chair
- Reset DONE thank you to new members, good representation across industry, academia and consultancy.
- Terms of reference update complete
- 2024/25 work plan prioritisation underway input from members welcome





- 1. Review best practice in LCA methods and communication globally and disseminate information and findings. This may include development of member guidance.
- 2. Monitor and report best practice in applications that employ a life cycle approach, such as carbon and water footprinting.
- 3. Provide input to submissions and ad hoc groups formed with LCANZ
- 4. Monitor LCA Certified Practitioner Scheme and provide a New Zealand participant on the ACLCA certification committee
- 5. Assist potential users of LCA and LCA services on key issues for consideration and inclusion when developing a potential LCA project.
- 6. Monitor outputs from the Technical Advisory Group of the Australasian EPD Programme.

Work plan



- Submission responses as these arise
- Completion of comparative claims guidance
- Register development of available NZ databases, add links to LCANZ website
- LCACP pathways, overview of certification process and pre-requisite changes
- Potential areas for future work: circular economy paper update w/ ISO standards, digital tools including AI

| Filter by sector | | | | Fields for database I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I | | | | | | | | | | DATAB/ Ramew | |
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| | Description | Database Name | Database Owner | Link/URL | Publicly available? | Sector Focus | Geographic Scope | Data Types | Relevant LCI Information | Available Format | Data Sources | Access Information | Quality Assurance | Update Frequency | Additional Notes |
| Agriculture - Horticulture | | | | | | | | | | | | | | | |
| Agriculture - Livestock | | | | | | | | | | | | | | | |
| Infrastructure Roads | | | | | | | | | | | | | | | |
| Infrastructure - Buildings | | | | | | | | | | | | | | | |
| Transport | | | | | | | | | | | | | | | |



Thank you!



Feel free to reach out if you would like to be involved

Professional Development

Sub-committee

Emily Townsend

LCANZ Life Cycle Association New Zealand

About Professional Development



Sub-committee members

- Emily Townsend (chair)
- Barbara Nebel
- John McArthur
- Kelly McClean
- Gaya Gamage

New members welcome

Focus Areas

- Mentoring Programme
- Certifications
 - LCACP
 - CLE
 - CLAR
 - LCACP
 - Practitioner Affiliate
- University Engagement
- Training & Development

Mentoring Programme



Progress

- Launched May 2024
- Applications in June
 - 10 Mentee and 9 Mentor
- Pairing and introductions July
 - Mentoring Guidance provided
- First sessions have started

Next steps

- Develop feedback mechanism
- Set up LinkedIn Group
- Plan Mentees Teams call
- Review and plan for 2025...

Certifications



- Certifications are offered in collaboration with ACLCA and ALCAS
 - Recognised in New Zealand, Australia and America
- Suitably qualified and registered members of LCANZ can be certified as:
 - Life Cycle Assessment Certified **Professional** (LCACP)
 - Life Cycle Carbon Certified Practitioner (LCCCP)
 - Certified Life Cycle Assessment **Reviewer** (CLAR)
 - Certified Life Cycle **Executive** (CLE)
- A Life Cycle Assessment **Practitioner Affiliate** certification is being developed for early career LCA practitioners.
- Certifications webinar planned for Q4 2024

Certifications - LCACP



- Available in NZ since 2016 in collaboration with ACLCA and ALCAS
 - Demonstrates advanced level of expertise in LCA practice and commitment to LCANZ code of ethics
- Prerequisite requirements were updated in 2023
 - Reflects the professional nature of the certification
 - Alternative routes, but all options require:
 - LCA-related work experience
 - Direct participation in LCAs that are either critically reviewed or published in peer-reviewed journal
- Online closed-book exam is 3 ½ hours long with 184 questions
- 3-year recertification cycle to demonstrate continued or enhanced competence

Certifications - LCCCP



- Newly offered in NZ in collaboration with ALCAS
 - To expand the pool of suitably qualified lifecycle-based carbon footprint practitioners
- 2 levels of applicant with different prerequisites:
 - Experienced
 - At least 5 years GHG accounting and working as lead auditor/verifier
 - Practicing
 - At least 2 years GHG accounting
 - Provisionally certified subject to two successful reviews of life cycle carbon studies by certified LCCCP
- Online closed-book exam is 1 ½ hours long with 45 questions
- 3-year recertification cycle to demonstrate continued or enhanced competence

Certifications – CLAR



- Newly offered in NZ in collaboration with ACLCA and ALCAS
 - Demonstrates reviewers are competent to perform reviews of LCA studies, PCRs, EPDs etc
- Prerequisites based on demonstrated practical experience
 - Maintained LCACP
 - 5 years' experience in LCA
 - Performed at least 5 critical reviews
- No exam
- No recertification, but must maintain LCACP and LCANZ membership

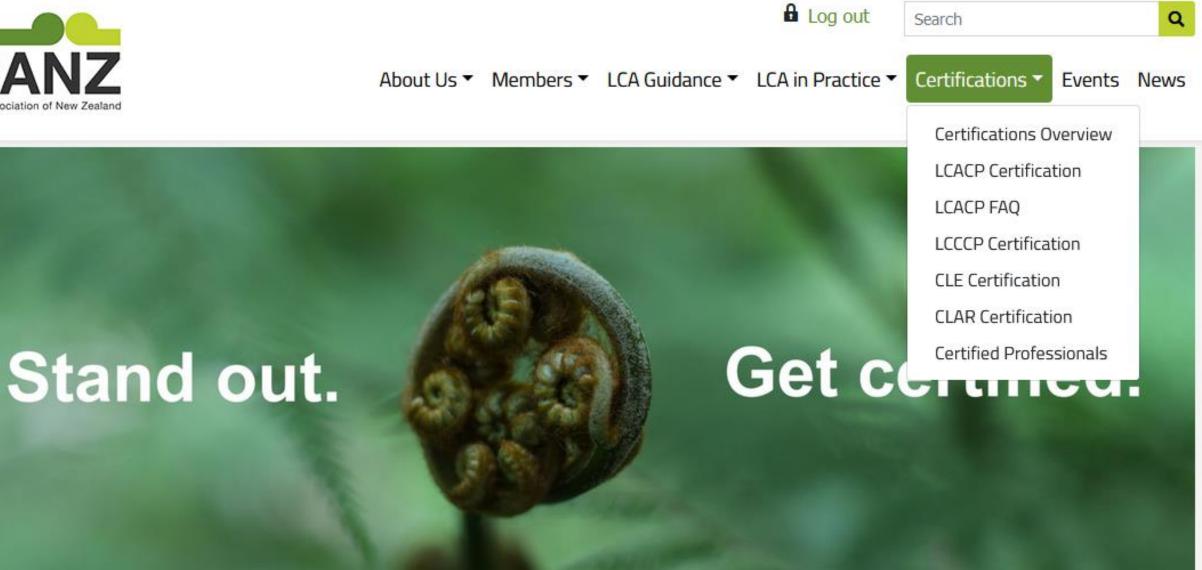
Certifications – CLE





- Newly offered in NZ in collaboration with ACLCA and ALCAS
 - Recognises competency to interpret and communicate LCA results
 - Apply core principles to inform product design, decision making and marketing without greenwash
- Prerequisites:
 - Education and work experience in environmental sustainability or related initiatives
 - Masters or post-graduate degree and two years' work experience
 - Undergraduate degree and four years' work experience
- Online closed-book exam is 1 hour long with 100 questions
- No recertification, but must maintain member in good standing





Advance your career with a Professional, Reviewer, Executive, or Carbon Certification

Future Focus



- Certified individual differentiation on website
- Life Cycle Assessment Practitioner Affiliate (with ALCAS and ACLCA)
- University Engagement
 - Support student members
 - Encourage teaching and use of LCA in further education
 - Develop network across universities in NZ
 - Enhance training offerings
- Training and development
 - Development pathways
 - Identify and share opportunities for our members (from partner organisations)

Thank you!



Get in touch if you would like to be involved

EPD Australasia

John McArthur

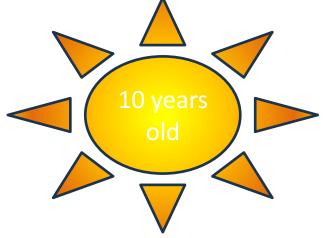
LCANZ Life Cycle Association New Zealand

EPD Australasia Ltd





- Role: Programme operator (and publisher) of Environmental Product Declarations (EPDs)
- Ownership: 50/50 LCANZ and ALCAS
- Establishment: September 2014
- Governance and management:
 - Board of six Directors, 3 appointed by LCANZ, 3 by ALCAS
 - One Programme Manager (contract)
 - One Advocacy and Marketing Director (contract)
 - One Technical Advisor (contract)
 - Technical Advisory Group (TAG) (7 expert members)
- Licenced to the International EPD System (Sweden)



| | AUSTRALASIA EPD® ENVIRONMENTAL PRODUCT DECLARATION BACK STATISTICS AND | | | | | | | | | | | | LCANZ | |
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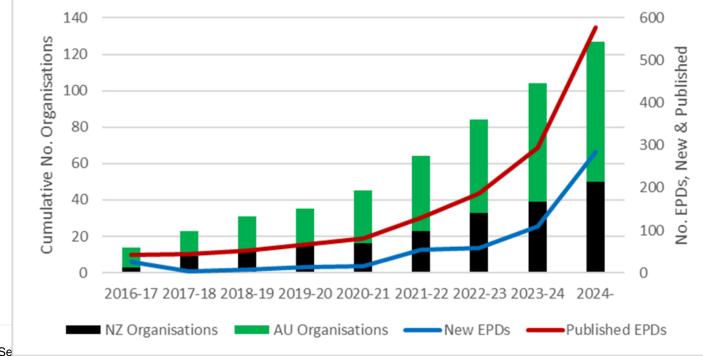
11/09/2023

EPD growth in Australasia



| | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | Since 31/3 |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------|
| New EPDs registered | 15 | 26 | 3 | 8 | 13 | 15 | 54 | 58 | 109 | 285 |
| Total EPDs | 16 | 42 | 45 | 53 | 66 | 81 | 135 | 193 | 302 | 587 |
| New organisations | 4 | 6 | 9 | 8 | 4 | 10 | 19 | 20 | 20 | 23 |
| Total organisations | 8 | 14 | 23 | 31 | 35 | 45 | 64 | 84 | 104 | 127 |

Growth in Organisations and Published EPDs

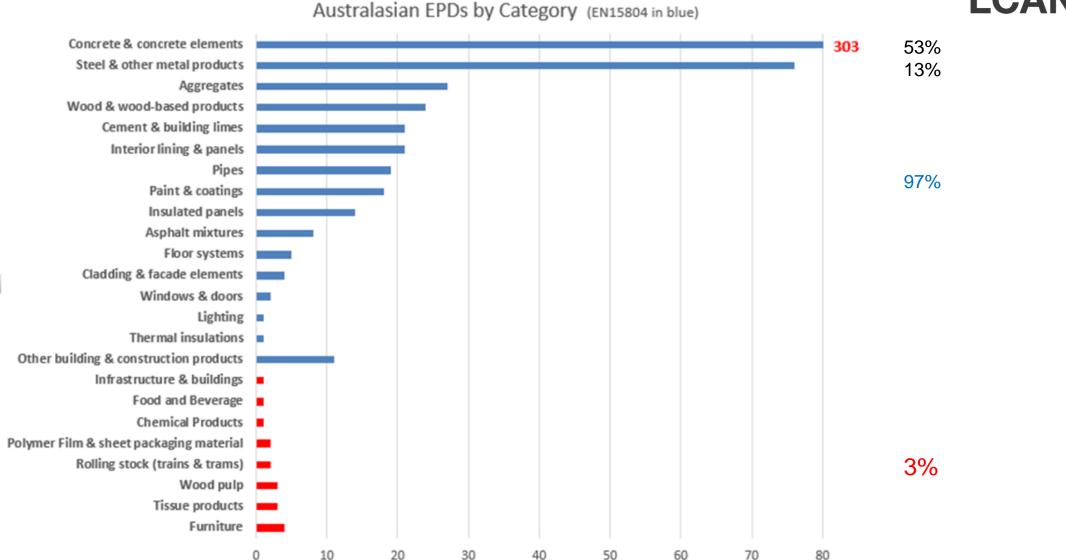


Notes:

- Up until August 2023 EPDs were able to represent groups of products, e.g. all concrete mixes of a building project.
- Our 302 EPDs at March 2024 represented 6,000 to 6,500 different products, each with specific LCA data tables

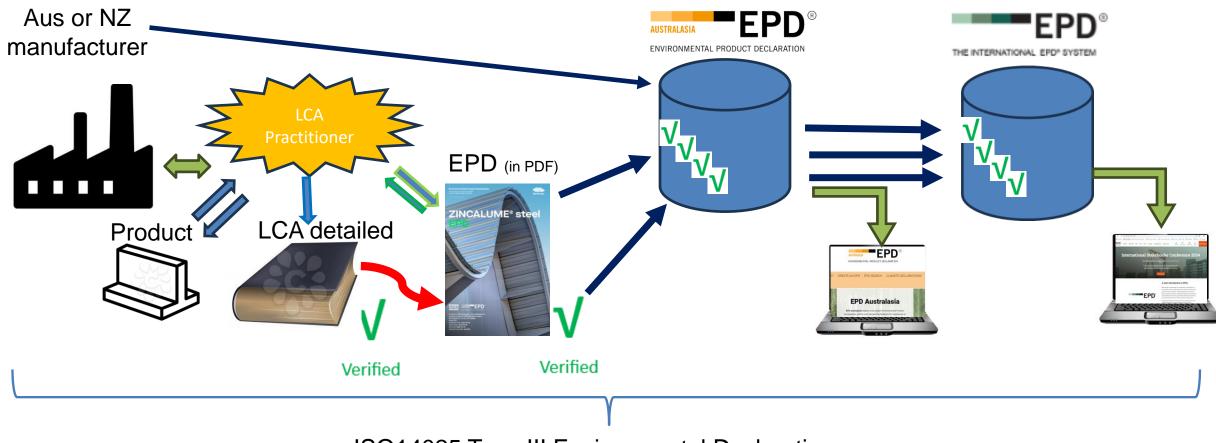
What products?





EPD Australasia – the EPD publication process

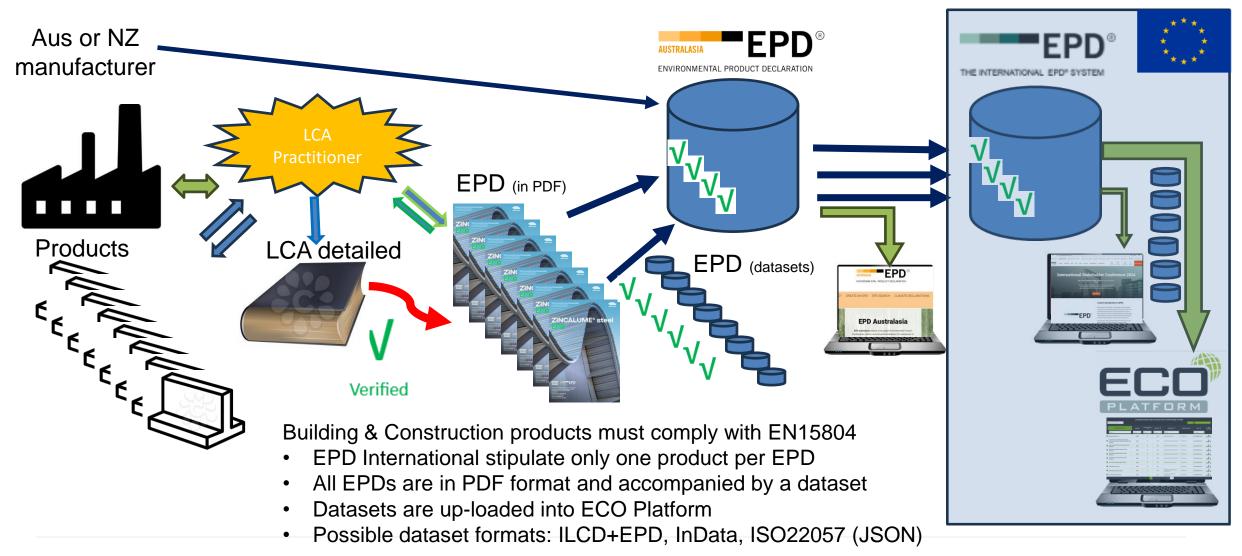




ISO14025 Type III Environmental Declaration

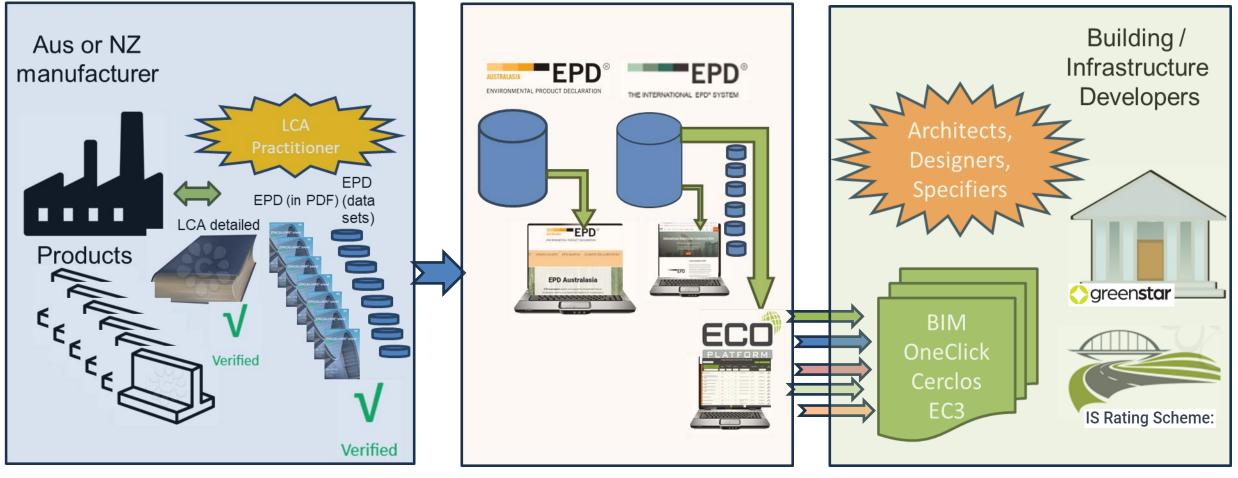
the EPD publication process – but wait – there's more.....





Why are we here? How is LCA reducing the impact on the environment?





Detailed LCA analysis to stimulate product improvement

EPDs are the highest integrity environmental impact data

BIM and construction LCA apps stimulate better product selection

General Business

LCANZ Life Cycle Association New Zealand

Kia tau

Karakia whakamutunga

Kia tau kia tātou katoa Te āio, te aroha me te marutau Tihei Mauri Ora

May peace, love, and safety Be upon us all Tihei Mauri Ora



AGM Close

LCANZ Life Cycle Association New Zealand

Thank you!

www.lcanz.org.nz

LCANZ Life Cycle Association New Zealand