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MECLA acknowledges and pays respect to the past, present and future Traditional Custodians and Elders of this nation and the continuation of cultural, spiritual and educational practices of Aboriginal and Torres Strait Islander peoples.

> MECLA is funded through commitments by two state governments, as well as industry contributions and philanthropic funding and managed by WWF Australia, Presync and Climate-KIC Australia.





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FOREWORD

Hudson Worsley Chair, MECLA

2023 has been a year of growing momentum in the collective actions of the Materials and Embodied Carbon Leaders' Alliance (MECLA), our member organisations and movement across the construction and infrastructure sector. Embodied carbon is becoming an increasing focus for leading companies, government agencies and policy advocates. This report provides a catalogue of the many examples where MECLA's collaboration across our complex ecosystem is having an impact.

In our recent Project Control Group strategy discussions, we considered the question; 'what next for MECLA?" The response made it clear that although we have begun to shift the thinking and actions of a significant leading group within the industry, we are just at the beginnning. MECLA is by name, and nature, a leadership group. It is therefore incumbent upon us to continue our work, building the momentum for change so that the fast followers and eventually the laggards also adopt the mindset, materials, systems and processes to cut embodied carbon across the entire construction and infrastructure sector.

It is wonderful that our 'do tank' is having such an impact. Of course, the many impacts only come about because individual members are so committed to make them happen. And because member companies recognise the many benefits of our mission. I'd like to express my gratitude to every person who has attended our Spotlight events, spoken on panels, dialled into and done the work in the working groups and then continued the conversations in their work ensuring the ripple effect spreads well beyond MECLA'S immediate audience. Thank you for your time, your expertise and your stubborn optimism, that together we can bring construction emissions onto a Paris-aligned trajectory!

EXECUTIVE SUMMARY

The urgency required to address the climate crisis coupled with the complexity within the construction ecosystem with many different players and moving parts renders the sector's transition a challenging task for individual organisations to manage on their own. MECLA brings together stakeholders from all parts of the ecosystem to disrupt businessas-usual. Together, government, industry and research organisations collaborate through MECLA to reduce emissions in the construction sector and move forward in lockstep and at speed. MECLA brings together all stakeholders along the supply chain to work collaboratively across different working groups. MECLA refers to itself as a 'do-tank' that actively engages in a variety of practical tasks, such as organising educational events, sharing knowledge, and involving its members in various Working Groups focused on areas like demand-side initiatives. measurement and evaluation, guidance and knowledge sharing, as well as



materials development. Additionally, other than the Secretariat, all industry participation across MECLA is voluntary.

Collaboration under the MECLA initiative has demonstrated that industry leaders are ready to act to help the government decarbonise the construction sector. Many industry actors have set ambitious sciencebased targets and are ahead of governments in being able to deliver on the decarbonisation pathway. Through MECLA, we have shared industry learnings and perspectives with government agencies. Achieving ambitious targets requires an appropriate regulatory framework and government procurement practices that can help to unlock new market opportunities for lower carbon materials and collaborative contractor methods. Investment from the federal government, matched with other jurisdictions, and the private sector can help accelerate the pace of change.

Through early engagement with the industry, governments can effectively road test their policy ideas, procurement practices and methodologies. For example, after early engagement with the industry in NSW, Transport for NSW and Infrastructure NSW, released their policy framework for climate change, establishing themselves as the leading agencies supporting the government's decarbonisation targets. MECLA hopes to undertake similar early engagement and capacity building across different state jurisdictions with a key focus on transport and infrastructure and procurement policies and practices.

Government procurement practices and National Partnership Agreements with local councils and state jurisdictions should clearly articulate their requirements and support for lower carbon building materials. MECLA's Demand Side Working Group developed the concept for a Pledge Prerequisite which has been introduced to various government agencies, whereby government contracts would require head contractors to submit a pledge outlining minimum embodied carbon targets, before they are eligible to tender for government contracts. South Australia will be the first

jurisdiction to adopt this policy from mid-2024. The NSW government now requires all new public infrastructure proposals to report on their embodied carbon emissions and analyse options for reducing embodied carbon in design and construction stages, as well as prioritising the use of low carbon and recycled or remanufactured materials. The approach aims for more ambitious policies and engagement across all jurisdictions, evolving and refining their policies by involving industries early, as done by MECLA, with the aspiration to involve member organisations in various jurisdictions.

Further investment is necessary to bolster the adoption of innovative, circular, and lower carbon materials; and by building a network of suppliers dealing in low carbon materials and supporting demand side offtakers, our goal is to accelerate uptake of these innovative materials. MECLA aims to be a national initiative over the next year supporting ambitious approaches to reducing construction embodied carbon and harnessing opportunities for industries prepared for a decarbonised economy. To transition towards Net Zero and overcome the challenges of embodied carbon emissions, we need expertise across the supply chain working collaboratively. The Materials & Embodied Carbon Leaders' Alliance (MECLA) was established in April 2021 as an initiative under the NSW Government's Net Zero Plan for low emissions building materials (LEBM). It has since evolved into an independent, membership-funded alliance of more than 160 national leaders in the built environment sector from industry, government and academia across the sector's entire supply chain. Taking a systems approach, MECLA members are determined to transform the building and construction sector to align with the Paris Agreement and the principles of a circular economy.

With the built environment sector being responsible for one-quarter of Australia's greenhouse emissions, there is an urgency around embodied carbon to reduce the carbon footprint of these materials, but it requires collaboration and leadership. By bringing different sectors together across the building and construction supply chain, we can collectively gain a better understanding of barriers to uptake and find the solutions that will be vital to moving ahead.

The systems diagram of the construction industry on the next page is the original piece of research which sparked the seeds that germinated into MECLA and identifies the key lever points for intervention to achieve our mission and purpose. Our mission

To accelerate reductions in embodied carbon in buildings and the construction industry

Our vision

Low embodied carbon is considered a non-negotiable measure of success — "time, cost, quality and carbon"

Our values

Collaboration, *do-tank*, precompetitive, transparent, boldly disrupting business-as-usual.

Our goal

A common expectation that all tenders will address embodied carbon reductions; there is an increase in demand for low embodied carbon materials, there is an increase in embodied carbon literacy and experience across the industry

Our purpose

To build unstoppable momentum through coordinating industry and government actors to drive ecarbonisation in embodied carbor

SYSTEMS DIAGRAM - DECARBONISING CONSTRUCTION MATERIALS

Construction project lifecycle





MECLA MEMBERS



How we work	MECLA is a collaboration of organisations coming together to drive reductions in embodied carbon in the building and construction industry. We seek to align with the Paris Agreement targets and principles of the circular	economy and recognise that the building and construction sector is a complex ecosystem. We do this by:
Demonstrating the demand and activating the supply of materials which meet the needs of net zero carbon goals	Defining a best practice embodied carbon evaluation framework	Knowledge sharing through best practice eduction, case studies, myth-busting, demonstrations, and supporting innovation in materials and processes as part of a pre-competitive approach
Developing common language for design specifications, procurement guidelines and tendering criteria as standard practice for government agencies and companies	Helping to manage industry's climate transition risks, risks associated with adopting innovative materials and the required skills development	Supporting materials such as steel, cement and concrete, and aluminium to reduce their carbon intensity and giving visibility to other low-carbon and innovative materials including engineered timber and
	How we work Image: Contract of the supply of materials which meet the needs of net zero carbon goals Image: Contract of the supply of materials which meet the needs of net zero carbon goals Image: Contract of the supply of materials which meet the needs of net zero carbon goals Image: Contract of the supply of materials which meet the needs of net zero carbon goals Image: Contract of the supply of materials which meet the needs of net zero carbon goals Image: Contract of the supply of the s	How we work MECLA is a collaboration of organisations coming together to drive reductions in embodied carbon in the building and construction industry. We seek to align with the Paris Agreement targets and principles of the circular Image: Composition of the supply of materials which meet the needs of net zero carbon goals Image: Composition of the circular Image: Composition of the supply of materials which meet the needs of net zero carbon goals Image: Composition of the circular Image: Composition of the supply of materials which meet the needs of net zero carbon goals Image: Composition of the circular Image: Composition of the supply of materials which meet the needs of net zero carbon goals Image: Composition of the circular Image: Composition of the zero carbon goals Image: Composition of the circular Image: Composition of the zero carbon goals Image: Composition of the circular Image: Composition of the zero carbon goals Image: Composition of the circular Image: Composition of the zero carbon goals Image: Composition of the circular Image: Composition of the zero carbon goals Image: Composition of the circular Image: Composition of the zero carbon goals Image: Composition of the circular Image: Composition of the zero carbon goals Image: Composition of the circular Image: Composition of the zero carbon goals Image: Composition of the circular Image

IMPACT SUMMARY 2023

MECLA has had an extraordinary 2023. We have grown to 160+ partner organisations and received funding from 80 industry organisations and two state governments. MECLA activities in working groups and subgroup meetings added inkind contributions from industry, government and academia in the form of over 3,500 hours, not counting additional time invested in preparations for working groups, submissions, presentations, publications and spotlight events.

2023 was the year that MECLA spread its engagement and community wider and deeper than before. MECLA contributed industry feedback to the development of over 13 relevant policies at state and national level, as well as providing significant capacity and capability building for the Australian building industry through its activities. Some of our most successful examples were our 14+ spotlight events and deep dives across five states attracting over 2,500 live attendees, for which we were able to issue 726 CPD points. We also continue to expand our free website resources to further enhance knowledge sharing across the industry. Our growing recognition as a leading body on embodied carbon is also reflected in our growing online presence, with over 3,000 LinkedIn followers and newsletter subscribers, and a steadily growing number of visitors and page views.

MECLA now has 160+ Founding Partners and Members from government, industry and academia, plus around 150 additional organisations participating in its ten working groups, >15 subgroups, plus secretariat, PCG and PLG. There are currently 80 financial supporters of MECLA, including two state governments: New South Wales (NSW) and South Australia (SA). Our work in 2023 was clustered around the following themes:

- Standards, Policy and Regulation: Continue to engage across agencies across jurisdictions to promote business cases, policies and practices that support early industry engagement and build confidence in standardising low carbon materials in tendering and contracting. Examples include development of the Industry Readiness Index.
- 2. Procurement: Early engagement for collaborative contracting through case studies as well as development of a MECLA Guideline for procurement across each stage of the tendering and contracting process. Support Tier 2/3 contractors to upskill to facilitate their ability to respond to government expectations, in collaboration with organisations such as Engineers Australia.

3. Manufacturing: While we have seen some early progress the aluminum and concrete sectors. there is much more to do to support manufacturers to retool through development of more detailed definitions and guidelines for low carbon materials and seeking early offtake agreements and support for their innovation investment efforts across the major materials sectors. 4. Skills, Training and Behaviour **Change:** Ongoing events including Spotlight events, deep dive industry field trips and MECLA's new offering to support the industry with their problem-solving skills. 5. Improved Data: Measurement and access to accurate data is key to effectively engage at the early design stages during the development and use of embodied carbon materials. Several programs have kickstarted including one

with NABERS (National Australian

Built Environment Rating System) because of the MECLA initiative. We will continue engaging and collaborating through these programs into 2024 and beyond.

6. Ongoing focus on outputs from our working groups: MECLA has 10 working groups across the Demand Side, Measurement, Guidance, Residential and the Materials working groups including steel, concrete, aluminium, other materials e.g. glass, bricks & masonry, asphalt, piping, circular and recycled materials.

WORKING GROUPS

MECLA has 10 working groups across each of the key lever points required to achieve change and accelerate addressing embodied carbon.

WG1: Demand Signal

Send a clear demand signal for low/no embodied carbon materials.

WG2: Evaluation

Document current approaches to embodied carbon benchmarking.

WG3/4: Guidance

Enable expansion of knowledge and capabilities in the sector.

Evaluate the (technical / funding / standards /

capacity) barriers facing industry sectors and possible mechanisms and timeframes for

Australian-based companies to overcome these to achieve significant emissions reduction per unit of

WG5: Materials

Accelerating the supply side.

WG6: Residential

Identify barriers and opportunities for decarbonisation in residential housing development.





- WG5c: Aluminium
- WG5d: Other Materials
- WG5e: Building Services
- WG5f: Engineered Timber





Chair:	Ann Austin Head of Sustainability
	Lendlease
Subgroup	David Ritter
Chairs:	Sustainability Lead - Australia and
	Grimshaw Architects
	Vanni Panadonoulos
	Sustainability Director -
	Sustainable Operations
	JLL
	Karinne Taylor
	Manager Environmental Projects
	City of Sydney
	Ann Austin
	Head of Sustainability
	Lendlease

Working Group 1 (WG1) has been meeting monthly since its establishment in April 2021. Their overall objective is to send a clear, consistent and significantly increased demand signal for low/no embodied carbon materials so that suppliers are confident to invest in decarbonisation innovation. The WG now has three sub-groups that meet monthly with the full WG1 meeting now every quarter. Other sub-groups including Toolkit and Measure & Disclose were wound up during the year with their work passed onto other WGs.

Pledge Pre-Requisite

This sub-group is advocating for a 'Pledge' policy to be included as a pre-requisite for Government work. The 'Pledge' would require head contractors to set and monitor a publicly available target to reduce embodied carbon in building materials. The sub-group has been advocating for this type of consistent, yet flexible expectation around embodied carbon reduction targets to various Government agencies in all states over the past 18 months.

This year, the South Australian government adopted this into its revised Sustainable Procurement Policy the government's infrastructure and transport programs to come into practice from 1 July 2024. The policy requires all contractors bidding on infrastructure and transport work over \$50 million to have organisational emission reduction targets that address emission from their own fuel and electricity use as well as in their supply chain.

Show me how to deviate

This subgroup focused on deviating from standard specifications and the work was featured at the MECLA **Spotlight event on Myth Busting** on 18 May 2023. A report outlining potential standard pathways for deviation was prepared for Investment-NSW and will hopefully

be published in 2024. The report will

enable developers and designers to deviate from material specifications (including identifying key stakeholders and setting out ways to map the approval process for contractors or designers to propose alternate, low embodied carbon materials that deviate from client specifications). This sub-group continues find ways to engage and intervene.

Local Councils

This sub-group will support council officers to investigate measurement and reduction of embodied carbon in their councils' capital works programs including civil and linear infrastructure (i.e. roads, parks, civil infrastructure). The first **Spotlight on Local Councils** event was held on 5 December.

Readiness Index

The subgroup will establish industrysupported research to assess the readiness of suppliers and head contractors to deliver low embodied carbon outcomes. An ability to demonstrate readiness will provide governments with the confidence to be more ambitious in their procurement asks and expectations. The subgroup is currently in conversations with different state government agencies to run a pilot project in early 2024.





Working Group 2: Measurement and Disclosure				
Chairs:	Caroline Noller Founder & CEO The Footprint Company			
	Lucy Marsland Environmental Manager Atelier 1			
Subgroup Chairs:	Brendan Liveris National Sustainability Manager Hanson Australia			
	Lachlan Ramsey Principal Structural Engineer AECOM			
	Mel Rohan Senior Public Affairs Officer (Aust) RICS			

Working Group 2 (WG2) objectives are to document and provide feedback on current best practice approaches to embodied carbon benchmarking, tools, and calculators.

After releasing a discussion paper "Upfront Carbon in the Built Environment" in October 2022, WG2 held their first Spotlight event on Measuring Embodied Carbon on 23 February 2023. The Spotlight covered issues from the discussion paper as well as recent work completed by the Green Building Council of Australia and the NABERS team and their discussion papers on measurement.

Subsequently this WG provided input into the NABERS consultation process that occurred during the year. NABERS will continue its work to launch its pilot tools which we understand will be ready for use by mid 2024.

In 2023, three subgroups were created focusing on Materials, Buildings and Infrastructure, providing input into Working Group 3&4's Action Guide and continuing to input into the NABERS tool development process. The Working Group was also providing technical input and feedback into several state and federal policy consultations and will continue to further their engagement with industry and government in this space in 2024. Reconfiguration of this Working Group is underway as we decide how best to provide this input.



Vorkin Guidano	g Group 3/4: ce
hairs:	Haley Jarick CEO
	Supply Chain Sustainability School
	Jeremy Mansfield Director Mansfield Advisory Pty Ltd

Working Group 3/4 (WG3/4) has shifted its focus this year to deepening expectations around addressing embodied carbon through an Action Guide which will be completed by Q2 2024. Prior to this action guide this WG delivered a **Dictionary of Carbon** and a number of **case studies**.

The Action Guide will support all actors at different stages of the procurement process on how to start engaging with and specifying expectations on reducing embodied carbon and lower carbon materials.







Working Group 5a:

Steel	
Chairs:	Haley Jarick CEO Supply Chain Sustainability School
	Joe Karten

Head of Sustainability and Social Impact Built



- The Materials Working Group 5 (WG5) on steel is dedicated to accelerating emissions reductions in steel through knowledge sharing on the complexities of manufacturing low carbon steel.
- At the beginning of the year, MECLA members were treated to a Deep Dive visiting BlueScope's Port Kembla Steelworks. The WG developed series of one-pagers on on steel decarbonisation and broader sustainability issues in the steel value chain as follows:
- Responsible Steel Snapshot
- Carbon from Steelmaking
 Snapshot
- CCU/CCS in Steel Snapshot



- Product Stewardship in Steel
 Snapshot
- Hydrogen in Steelmaking
 Snapshot
- Low Embodied Carbon Steel
 Snapshot
- Steel Sustainability Australia Snapshot

WG5a is looking at more ambitious plans for 2024 as it builds its understanding of the opportunities to source and manufacture lower carbon steel.



Worki	ing (Grou	ıp 5b	•
Concr	ete	and	Cem	ent
-				

Chairs: Ali Kashani Senior Lecturer UNSW

Evan Smith

National Sustainability Manager Holcim

SubgroupNiki JacksonChair:Director

Sustainable Future by Design

The Materials Working Group 5b (WG5b) on Concrete & Cement is focused on knowledge sharing of different pathways for sourcing lower carbon concrete and cement. A subgroup was formed a few months ago to develop a guide for low carbon concrete in Australia which should be ready for publication early in 2024.

The Spotlight on Myth busting had a range of case studies on common myths around low embodied carbon concrete and cement, including cost, time and performance.



Working Group 5c: Aluminium	The Materials Working Group 5c (WG5c) on Aluminium focuses on	highlighting the key learnings from their engagement with the aluminium
Chair: Jeff Morgan Principal Hassell	better engagement with industry on how to procure low carbon aluminium engaging both the demand and supply sides. In 2023, the WG undertook a Deep Dive series into th aluminium facade industry, engaging façade contractors, head contractor, consultants, developers and owners. As a result the WG published a Low	supply chain. This year, one of our MECLA members, Capral, Australia's largest aluminium extruder, launched their LocAl [©] product onto the Australian market, offering a locally extruded, lower-carbon aluminium for projects in construction, engineering, marine, transport, defence, renewable energy or general fabrication
	Carbon Aluminium Specifications Guide and a Top 5 Learning brochure	industries. e,
Working Group 5d:	WG5d is a representative network	(including measures, benchmarking,
Construction Materials & Asse	mblies of construction materials suppliers including masonry and bricks, asphalt and bitumen, glass and piping,	barriers, strategies, circular economy t and beyond).
CEO Think Brick Australia Josephine Vaughan Lecturer University of Newcastle	composite materials and others. They are working on the development of roadmaps for individual materials providing a deep dive into the key areas impacting on embodied carbon	WG5d will be renamed to Construction Materials & Assemblies in 2024.



Workin Building	g Group 5e: g services	The Materials Working Group 5e (WG5e) on Building Services	in a building. WG5e consists of experts in this industry, collaborating
Chairs:	Jeff Robinson Global Sustainable Design Expertise Leader Aurecon	focuses on systems such as HVAC, refrigeration, fire safety, escalators, lifts and lighting, which play an important role in reducing emissions	on capacity building in the sector through education, benchmarking and demonstrating demand.
	Mark Vender Advocacy and Policy Manager AIRAH		
Workin	g Group 5f:	The Materials Working Group 5f	around insurance and financing,
Enginee	ered timber	(WG5f) on Engineered Timber was	The working group is currently split
Chairs:	Stephen Simpson Design Director Mulpha	mapping pathways for further uptake of sustainably sourced engineered timber in the construction industry.	into three subgroups: insurance and regulatory, supply chain, and financial & logistics. They held a Spotlight ever
	Hamid Valipur Professor UNSW	This includes addressing challenges	in November.
Subgroup Chair:	Alastair Woodard Director TPC Solutions (Aust) Pty Ltd		

Chairs:	Julia Halioua Senior Sustainability Advisor
	The Footprint Company
	Karla Fox-Reynolds
	Sustainable Design Leader Hassell
Subgroup	Ishan Jain
Chairs:	Sustainability Advisor, Australian
	Steel Markets
	BlueScope
	Jeff Oatman
	Membership
	Green Building Council of
	Australia
	Dyan Johnson
	Manager – Policy and Economics
	Master Builders Queensland
	Tom Petty
	Co-Founder

Working Group 6 (WG6) – Residential is focused on accelerating the transition to a low carbon residential building sector, focusing on a series of levers of change, including government procurement, listed entities such as REITs and superfunds which are bound by the emerging ESG reporting standards, and the higher end of custom residential market where clients and purchasers are looking to invest in lower carbon options.

They have established three subgroups to address these levers, including on Leadership, Measurement & Collaboration (identifying and celebrating best practices and advocacy), Market Demand (understanding stakeholders, processes and barriers; increasing awareness and engagement in the supply chain) and Builders (understanding barriers, increasing awareness and engagement from builders and trade).



POLICY INPUT & ENGAGEMENT

Th M en ind int tes tes	arough its diverse industry network, ECLA can provide the required vironment for governments and dustry associations who seek input to their policy development, road- st draft roadmaps and policies and st industry readiness.	Various a from ME the follov • NABE Discu • Input
M foi	ECLA engagement takes several rms:	Const Targe
1.	Direct engagement and feedback rounds into government policies and roadmaps, for example,	 Environ Procu DCCI
	working group meetings, public events and roundtables	• South Infras
2.	Written submissions on industry consultations, policy and roadmap drafts	SustaAssist to Inf
3.	Participation of MECLA members in government and association advisory panels, government events and others	Austr at sta ° Inf De
4.	Participation of government and advisory members in MECLA working groups	Pu cas Inf

Various agencies have sought input from MECLA this year. These include the following:

- NABERS Embodied Carbon Discussion Paper and Briefing
- Input into APCC Pathway to Green Construction Procurement – Targeted Consultation Phase
- Environmentally Sustainable Procurement Policy (ESPP) for DCCEEW
- South Australia's Department of Infrastructure and Transport – Sustainable Procurement Policy
- Assistance and technical input to Infrastructure Partnerships Australia and Infrastructure bodies at state and federal level, such as:
 - Infrastructure Australia –
 Decarbonising construction:
 Putting carbon in the business
 case
 - P Infrastructure NSW & NSW Environment Protection

Authority - Protection of Environment Policy (PEP)

- Infrastructure NSW -Decarbonising Infrastructure Delivery Policy
- Infrastructure NSW Embodied Carbon Measurement Guidance
- Reducing Government Infrastructure Emissions Roadmap (Queensland Government)
- OCEE Feedback on Concrete
 Specifications
- Industry Deep Decarbonisation
 Initiative (IDD) an initiative of the clean energy ministerial from the
 Glasgow COP
- Ongoing Participation in MECLA

 Representatives of state government departments and relevant industry associations are members of the MECLA Project
 Contral Group, including TfNSW, GBCA, ISC and Standards Australia



We have had ongoing engagement across all levels of government across many jurisdictions. This includes input into multiple submissions.

Federal government

The Federal government's commitment to meeting the Paris Agreement Targets and its ambitions associated with creating a circular Australia by 2030 aligns with MECLA's purpose. Equally significant is the aim to generate new job opportunities within a transitioning, decarbonising economy, fostering innovation and progress for the nation.

There has been ongoing engagement with various Federal government agencies including:

- Department of Climate Change, Energy, the Environment and Water
- Department of Industry, Science & Resources

- Department of Infrastructure, Transport, Regional Development, Communications and the Arts
- Australasian Procurement and Construction Council
- Department of Foreign Affairs and Trade
- Clean Energy Finance Corporation
- ITSOC Infrastructure, Transport Senior Officials Committee



EVENTS

MECLA members participated in 10 Spotlight events over 2023 with more planned for next year. We also hosted two Deep Dives, to BlueScope Steel and Daikin.





KNOWLEDGE DEVELOPMENT & SHARING

Knowledge sharing and capability development is a key lever identified by MECLA for addressing embodied carbon in the built environment. As such,

As MECLA emerges as the go-to entity in the embodied carbon discussion in Australia, our knowledge products are reaching ever-growing audiences, and we can observe the conversation around embodied carbon in the sector maturing.

Knowledge is generated and shared by MECLA in three main ways:

- 1. Between MECLA members;
- 2. From MECLA to the broader Australian built environment embodied carbon ecosystem;
- From MECLA to the wider community, in Australia and abroad, with interest in embodied carbon futures and/or MECLA's model of collaboration.





MECLA members and participants	MECLA's members and participants embody the richest and deepest concentration of knowledge — both theoretical and practical — about embodied carbon across the entire built environment value chain in Australia. MECLA's membership cohort comprises approximately 250 participating organisations and departments, 10 working groups and over 15 sub-groups. In 2023, over	 1,000 participants from this cohort participated in over 60 working group meetings. Working group discussions are highly output and outcome-oriented and focussed on the objectives set by each working group. Participants of all nine working groups benefit from the knowledge sharing and capability building that eventuates from these meetings.
Materials embodied carbon ecosystem	MECLA's outputs and activities centre around the production of resources and knowledge sharing events to educate and align industries around	outputs and resources published on the MECLA website, including working group outputs such as case studies and publications.
	 embodied carbon best practices, emerging insights, and market opportunities. These include MECLA Spotlight events, workshops and presentations advertised and delivered through 	Participants can receive accreditation in the form of CPD (continued professional development) points for attendance of Spotlight events from numerous MECLA partner organisations, such as GBCA,
	MECLA's channels, as well as other	Engineers Australia, RICS.



Broader networksThe growing recognition of MECLA as a leading body on embodied carbon is reflected in our growing online presence, with over 3,000 LinkedIn followers and newsletter subscribers, and a steadily growing number ofActivities in this tier include government and industry briefings participation of MECLA secretaria and partner organisations in extern industry, government and university events, as well as other formal and			
visitors and page views. informal engagement.	tion of MECLAActivities in this tier includeembodied carbongovernment and industry briefingspwing onlineparticipation of MECLA secretaria3,000 LinkedInand partner organisations in exteretter subscribers,industry, government and universing number ofevents, as well as other formal andws.informal engagement.	The growing recognition of MECLA as a leading body on embodied carbon is reflected in our growing online presence, with over 3,000 LinkedIn followers and newsletter subscribers, and a steadily growing number of visitors and page views.	Broader networks
As a consequence of this influence, MECLA is increasingly being invited to share MECLA learnings and knowledge with government, industry adn research bodies outside of the MECLA community; extending beyond national borders, and beyond the boundaries of the construction industry.	this influence, Iy being invited to ngs and knowledge dustry adnThese events provide a platform to bring together and introduce individuals and organisations who decarbonisation ambitions go bey the physical possibilities and remit MECLA, who can extend our impa replicate our model in different va chains or jurisdictions.	As a consequence of this influence, MECLA is increasingly being invited to share MECLA learnings and knowledge with government, industry adn research bodies outside of the MECLA community; extending beyond national borders, and beyond the boundaries of the construction industry.	



GOVERNANCE As a network governance model, MECLA is governed by its Project Control Group (PCG) and Project Leadership Group (PLG). the PCG is made up of the chairs of the different working groups and other invited persons. **PCG** members Hudson Worsley (Secretariat) Hayley Jarick (WG5a) Supply Chain Sustainability School Presync Monica Richter (Secretariat) Joe Karten (WG5a) WWF Australia Built Kathy Verheyen (Secretariat) Ali Kashani (WG5b) Climate-KIC Australia UNSW Alexi Barnstone (Secretariat) Evan Smith (WG5b) Climate-KIC Australia Holcim Ann Austin (WP1) Jeff Morgan (WG5c) I endlease Hassell Caroline Noller (WP2) Cathy Inglis (WG5d) The Footprint Company Think Brick Australia Lucy Marsland (WG2) Josephine Vaughn (WG5d) Atelier Ten University of Newcastle Haley Jarick (WG3/4) Jeff Robinson (WG5e) Supply Chain Sustainability School Aurecon Jeremy Mansfield (WG3/4) Mark Vender (WG5e) Mansfield Advisory Pty Ltd AIRAH



UNSW
Stephen Simpson (WG5f) Mulpha Australia Ltd
Karla Fox-Reynolds (WG6) Hassell
Julia Halioua (WG6) The Footprint Company
Alberto Jimenez NSW Government
David Kelly Transport for NSW

Christophe Barriere-Varju BvW Global Pty Ltd Patrick Hastings Infrastructure Sustainability Council Mike Kilburn Infrastructure Sustainability Council Jeff Oatman Green Building Council of Australia Simon Currie

Simon Currie Energy Estate

Henrietta Tan Standards Australia **Levi Robinson** Standards Australia

David Warren Dual Basis

Ross Donaldson EPM Experimental

Philippa Stone BlueScope

Rick Walters Aware Super



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FINANCIALS

MECLA activities in 2023 have been funded through commitments by two state governments, as well as industry contributions and philanthropic funding. Government contributions weren't made for specific years or financial years but rather tied to the achievement of certain milestones and/or the duration of the MECLA project.

MECLA activities in working groups and subgroup meetings added inkind contributions from industry, government and academia in the form of over 3,500 hours, not counting additional time invested in preparations for working groups, submissions, presentations, publications and spotlight events.

Financial contributions cover the cost of the secretariat, as well as travel cost, event costs, as well as other costs related project delivery.

Financial year	Government commitments	Industry commitments	WWF contribution	Other commitments
2021/22	\$150,000 (NSW)	\$164,500	\$105,000	\$50,000 (philanthropic funding)
2022/23	\$159,000 (NSW) \$50,000 (SA)	\$231,650	\$105,000	\$7,774.74 (donation)
2023/24	\$100,000 (NSW)	\$67,000	\$105,000	\$50,000 (philanthropic funding)
Total	\$459,000	\$463,150	\$315,000	\$107,774.74
MECLAS • Chair • Direc • Senio week	Secretariat person : 2 days/week tor: 3 days/week r Project Manager:	nel: 3 days/	Events: Catering for Printing Other:	in-person events
 Project Travel: Trave caterion 	ct Manager: 3 days I, accommodation a ng for attendance a n events	/week and at in-	Software su Web hosting Security upo for project s	bscriptions g and domains lates and IT support oftware



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