

ANNUAL REPORT

2021-2022



Acknowledgment of Country

Doctors for the Environment Australia's members live and work around Australia. We acknowledge Aboriginal and Torres Strait Islander peoples as the Traditional Owners of these lands, in the spirit of reconciliation.

We recognise that First Nations peoples have cared for Country and lived sustainably for millennia, and that sovereignty of this land was never ceded. We pay our respects to First Nations Elders past and present, and to emerging leaders.

Doctors for the Environment Australia (DEA) is an independent, non-governmental organisation of medical doctors and students in all Australian states and territories.

We work to address the public health impacts from damage to our natural environment such as climate change, which will increasingly undermine our health and our healthcare services if we fail to act.

We are supported by a distinguished Scientific Advisory Committee:

Prof Stephen Boyden AM, Prof Emeritus Chris Burrell AO, Prof Colin Butler, Prof Peter Doherty AC, Prof Michael Kidd AM, Prof David de Kretser AC, Prof Stephen Leeder AO, Prof Ian Lowe AO, Prof Robyn McDermott, Prof Lidia Morawska, Prof Peter Newman AO, Prof Emeritus Sir Gustav Nossal AC, Prof Hugh Possingham, Prof Lawrie Powell AC, Prof Fiona Stanley AC, Dr Rosemary Stanton OAM, Dr Norman Swan.

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From the Chair



**Dr John Van
Der Kallen**

DEA has had an amazing year. As the impact of DEA's organisational review started having an effect we have seen DEA's influence increase. This impact was seen in many areas but none more so than the federal election. DEA worked hard to get the message out that climate change is impacting on health and the result was an increased awareness of climate change by the voters. Obviously, many other organisations worked on this message but having the doctors' and medical students' respected voices giving the messages allowed other organisations to feel confident in delivering that message as well.

We now have a new government and new opportunities for advocacy for our environment and our health. We have already seen a change in attitude from government organisations who now appear to be more engaged in mitigating and adapting to the health and environmental impacts of climate change. However, a huge amount of work remains to be done.

Having a look though this year's annual report, I feel honoured to be Chair of this wonderful organisation. Each state committee and special interest group has been actively working to protect our health. Special mention needs to go to the Sustainable Healthcare Special Interest Group which has produced some terrific resources and is accelerating Australia's healthcare sector to become carbon neutral. Similarly, the Mental Health Working Group has produced a timely resource which outlines the mental health impacts of climate change. But there are so many more activities that DEA has done, so make sure you have a good look through this annual report.

This year also saw increased collaboration with other organisations which has elevated the message of climate change and its impacts on health. The inaugural DEA-AMA webinar was a great success with presentations from 13 medical colleges and over 350 attendees. DEA was also a leader at the Better Futures Australia forum in the lead up to COP26 which helped build momentum for climate action in Australia.

None of DEA's work would have been possible without you – the DEA members and supporters as well as our brilliant and dedicated staff. What a team! Special mention to our terrific Executive Director, Denise Cauchi, who is guiding DEA to become a more effective and influential organisation. By each of us playing our part, DEA will have an ever-increasing influence and hopefully together we will be able to overcome this climate and biodiversity calamity.

From the Executive Director



Denise Cauchi

What a huge year it has been for climate action in Australia. Finally, we had the climate election we have been waiting for, with climate change a major voting issue for the Australian public.

Doctors for the Environment Australia's members mobilised in an all-out effort to put climate change on the agenda in five electorates around the country, putting in hundreds of hours in talking to the public, electoral candidates and medical colleagues about the health impacts of climate change and what we can all do to contribute to the solutions.

Multiple studies have shown doctors to be among the most trusted professions in Australia, making them influential messengers about climate, able to reach people across all political and social spectrums. This was evident in the electorate campaign, with many members of the public in Liberal electorates readily talking to our members and signing postcards to MPs and the prime minister about the need to protect climate to protect health. Similarly, DEA's messages were reported in both conservative and progressive media outlets – demonstrating the broad appeal of the health voice.

Four of the five electorates we campaigned in changed hands to candidates with more climate friendly policies. Our full report is on page 10.

A second major area of DEA's work this year has been the promotion of sustainability in the healthcare sector. Given that healthcare contributes approximately 7% of Australia greenhouse gas emissions, we need to play our part in reducing our sector's carbon footprint and its environmental impact. DEA has long been advocating for the establishment of a national Sustainable Healthcare Unit to advance standardised and consistent emissions metrics, map evidence-based approaches to emission reductions, monitor health co-benefits and achieve sector-wide outcomes. Over the past year there has been a discernible increase in interest in a national Sustainable Healthcare Unit within the healthcare sector and encouraging indications from the new government.

Our members have also been working directly with hospital leaders to promote 100% renewable electricity and influence new hospital builds to be 100% electric. This advocacy has been accompanied by resources and toolkits to guide implementation.

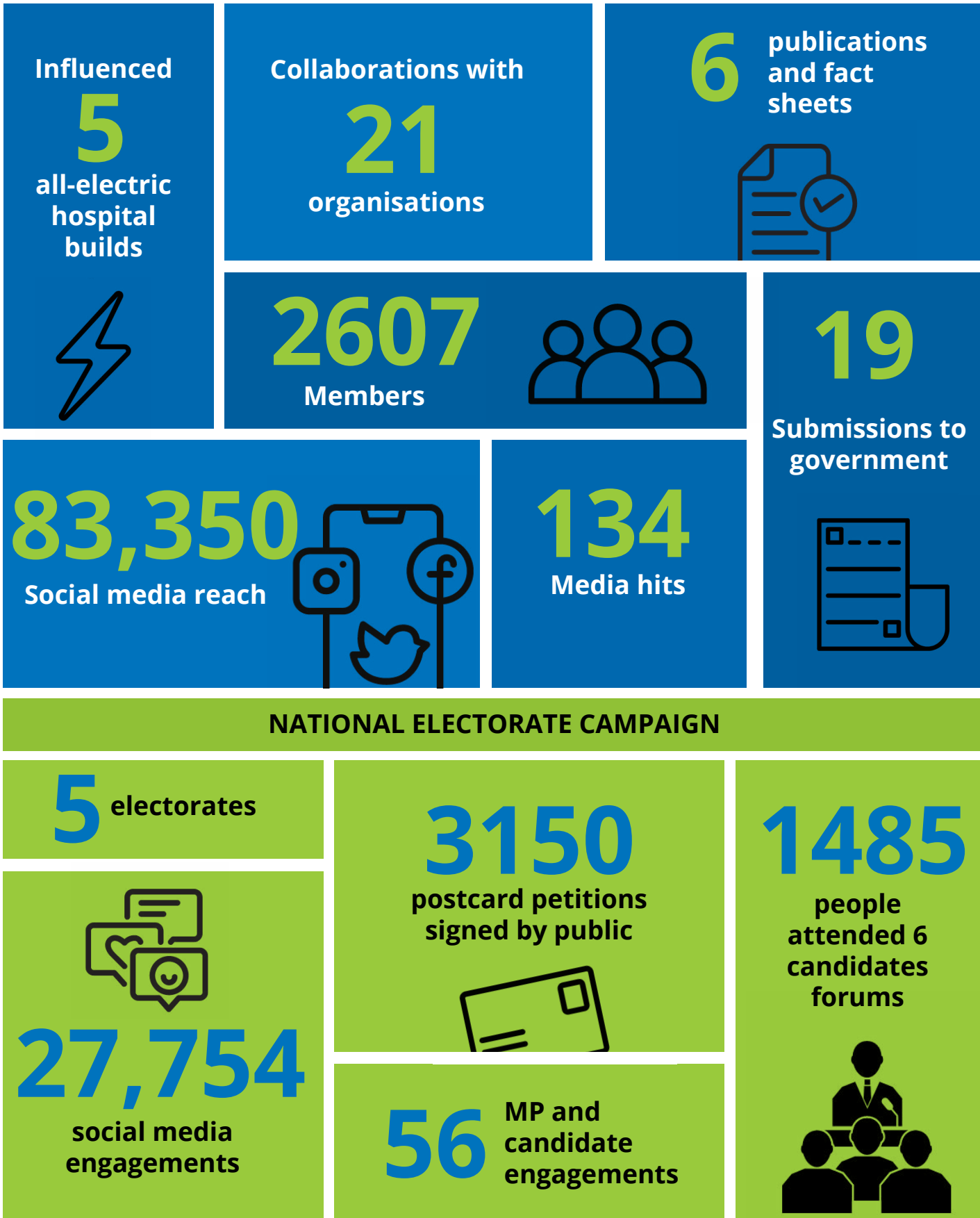
The next generation of doctors will be working in an increasingly challenging environment, presented with the clinical impacts of climate change in their hospitals and practices. With this in mind, DEA has been influencing the development of new climate-aware standards in medical education curricula across Australia. Our students and doctors have also co-developed an easy-to-use curriculum resource tool Mapping Climate Change and Health into the Curriculum, that will help medical educators to integrate climate change and environmental impacts into teaching modules for medical students.

As we are living in a rapidly evolving climate context, it is essential that DEA's work is guided by an agile strategy. Our new strategic plan, launched in mid 2022, identifies the three goals we will work towards: emissions reduction through public and political influence, healthcare sector sustainability and nature protection.

DEA's greatest strength is the talent, commitment and diversity of its 2700+ doctor and student members, who see the health impacts of climate change and environmental destruction from multiple perspectives, and recognise that the solutions will be multi-faceted. They are active all around Australia at a local and state level, and through their hospitals, practices, specialities and universities. They educate and advocate through a range of special interest groups and thematic areas that reflect their interests and expertise – air quality, sustainable healthcare, biodiversity, divestment, mental health, First Nations solidarity and gender. They influence government policy in all these areas and educate both the public and the medical profession.

Our members have remained committed to this work as they have responded to the demands of the Covid response in a severely stretched health system. This year they have once again found the time outside their demanding work schedules to volunteer thousands of hours to help find the solutions to the climate and environmental crises we are living in. As you will see in this report, DEA is a very special organisation.

The year in numbers



Strategic plan 2022-24



OUR VISION

Healthy planet, healthy people

OUR PURPOSE

Protecting health through care
of the environment

OUR VALUES

- Respect for the natural world
- The right to health
- Scientific integrity
- First Nations leadership
- Equity and justice
- Non-partisanship
- Care and support



OUR STRATEGY

(how we create change)

Make climate change a health issue

We publicly communicate the physical and mental health impacts of climate change, and the benefits of action. We do this through:

- Synthesising and communicating authoritative, leading-edge information
- Shaping the media narrative
- Sharing health stories and evidence-based information with other organisations

Grow the climate and health movement

We build capacity and mobilise doctors and medical students to act on climate and the environment, nationally and locally.

We work in partnerships with health organisations to build broad consensus on climate action; and with non-medical organisations to add a health lens to their campaigns.

Apply political pressure

We directly engage with politicians about climate change, and work in their electorates so MPs feel the strength of community support for climate action.

Promote nature protection for human health

We raise awareness of the links between nature and human health, and of nature-based solutions to climate and health challenges.

Make the health sector sustainable

We work with the health sector so it can lead by example - reducing its emissions and preparing doctors and medical students for the health impacts of climate change.

OUR IMPACT GOALS

(the outcomes we want to achieve)

Health is protected by cutting emissions this decade

1. By 2024 DEA will have helped the majority of Australians understand the physical and mental health impacts of climate change and benefits of climate action, making climate a top priority public policy interest area.

2. By 2024 DEA will have shifted key decision makers towards a more ambitious emissions reduction agenda

The healthcare sector significantly reduces its carbon footprint this decade, and understands the health impacts of climate change.

3. By 2024 DEA will have helped equip the Australian healthcare sector to achieve a carbon footprint reduction of 80% by 2030 and net zero emissions by 2040.

4. The medical profession is educated about the physical and mental health impacts of climate change, and the health benefits of climate action.

Nature is recognised as vital for health

5. By 2024 the public and the health sector will have a greater understanding of the need to protect nature to protect human health, and about how protecting nature contributes to solutions for both climate change and health challenges.



Australia meets its scientific, moral and international obligations to cut emissions and protect nature to safeguard health.

Political and Public engagement





Climate action for health's sake campaign

In preparation for the federal election, DEA developed a political strategy that focused on key electorates where we believed we could make a difference.

The focus was predominantly on electorates held by "moderate Liberals" where climate was already a key concern, where we felt a health narrative would resonate and where we had a member base that could be activated.

In reaching out to a more conservative audience our thinking was that the trusted voice of doctors could be utilised to for maximum effectiveness to connect with politicians, candidates and members of the public from all social and political backgrounds.

Boothby (SA), Curtin (WA), Higgins (Vic), Leichhardt (Qld) and Wentworth (NSW) were our final selections.

A range of tactics were identified that would elevate the public discourse on climate change and health at a local level and exert pressure on candidates through demonstrating support for stronger climate action from both the health profession and the public. These included:

- Postcard petitions signed by 3150 members of the public, following one-on-one conversations;
- Candidates' forums in each electorate, attended by a total of 1485 community members;
- 56 engagements with MPs and candidates, through meetings, attendance at events and other interactions;
- Social media campaigns on DEA national Facebook and Instagram Jan-June 2022 which reached 86,560 people;
- 74 media hits between Jan-June 2022, which included op-eds and articles in which DEA members were quoted, in local, state, and national media outlets;
- Collaboration with 15 organisations - five of them from the medical/health sector - as event and campaign partners and/or providing speakers;
- Other community events and activities such as a public picnic, EV expo, placards distributed to GP practices, letter writing to MPs and candidates, and a series of weekend walks engaging the public in conversations on climate and health.



It's been a great experience and good for my health!"

DR DON SERLE,
Wentworth and Higgins
team member



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I also want to take this opportunity to acknowledge the important work done by conservation and environmental groups in my electorate. Doctors for the Environment talked to me about the public health emergency that climate change represents, heatwaves causing deaths and infectious diseases."

THE HON. LOUISE MILLER FROST,
member for Boothby, speaking to the House of Representatives on the second reading of the Climate Change Bill.

This was the first time DEA had run a nationally coordinated, public, grassroots campaign, with a dedicated staff member, and was something of an experiment.

It has fostered a new skill set and strategic thinking within DEA. Some 31 doctors directly contributed to campaigning. Evaluation data and feedback from campaigners demonstrate that this mode of campaigning can be successfully adopted by DEA and provide another avenue for advocacy.

We sincerely thank the organisations that provided financial support at different stages throughout this campaign: Lord Mayors Charitable Foundation, Groundswell, Australian Conservation Foundation, Climate Action Network Australia.

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I think we should be really impressed with ourselves. We did something we hadn't done before and we made a difference. It's hard to measure that, but we know that we helped get the climate health message out there and we should be proud."

DR KATE WYLIE,
Boothby team member



Influencing government policy

For over 20 years DEA has been influencing government policy to protect health through the protection of the environment.

In the lead up to the federal election, DEA members held 56 meetings and other engagements with MPs and candidates to seek their commitment to progressive action on climate change and environmental protection. Meetings also occurred with other MPs at a state and federal level.

The Research, Education and Advocacy Committee oversees DEA's policy advocacy role, and supports other members to ensure a consistently high quality of submissions, aligned with the science.

Over the past year, DEA wrote 19 submissions to government on a range of issues related to climate and health, and presented at a parliamentary hearing. See page 49 for a full list of DEA submissions.

Meetings with MPs and candidates

Federal MPs

Dr Katie Allen, former Liberal MP for Higgins (Vic)

Dr Michelle Ananda-Rajah, ALP MP for Higgins (Vic)

Adam Bandt, Greens MP for Melbourne (Vic)

Mark Butler, Minister for Health and Aged Care, ALP MP for Hindmarsh (SA),

Kate Chaney, Independent MP for Curtin (WA)

Warren Entsch, Liberal MP for Leichardt

Celia Hammond, former Liberal MP for Curtin (WA)

Max Chandler-Mather, Greens MP for Griffith (Qld)

Dr Fiona Martin, former Liberal MP for Reid (NSW)

Louise Miller-Frost, ALP MP for Boothby (SA)

Dr Sophie Scamps, Independent MP for Mackellar (NSW)

Dave Sharma, former Liberal MP for Wentworth (NSW)

David Shoebridge, Greens senator (NSW)

Allegra Spender, Independent MP for Wentworth (NSW)

James Stevens, Liberal MP for Sturt (SA)

Rachel Swift, former Liberal MP for Boothby (SA)

Kylea Tink, Independent MP for North Sydney (NSW)

Tony Zappia, ALP MP for Makin (SA)

Federal electoral candidates

Sonja Baram, ALP candidate for Sturt (SA)

Jeremy Carter, Greens candidate for Boothby (SA)

Jo Dyer, Independent candidate for Boothby (SA)

Elida Faith, ALP candidate for Leichardt (Qld)

Katie McCusker, Greens candidate for Sturt (SA)

Tim Murray, ALP candidate for Wentworth (NSW)

Phillip Mushmeci, Greens candidate for Leichardt (Qld)

Cameron Pidgeon, Greens candidate for Curtin (WA)

Sonya Semmens, Greens candidate for Higgins (Vic)

Dominic Wy Kanak, Greens candidate for Wentworth (NSW)

State MPs

Amy McMahon, Greens state MP for South Brisbane (Qld)

Better Futures Australia builds ambition for COP26

In the lead up to the 26th Conference of the Parties (COP26) of the United Nations Framework Convention on Climate Change in November 2021, DEA was involved in a major initiative to build momentum for climate action in Australia.

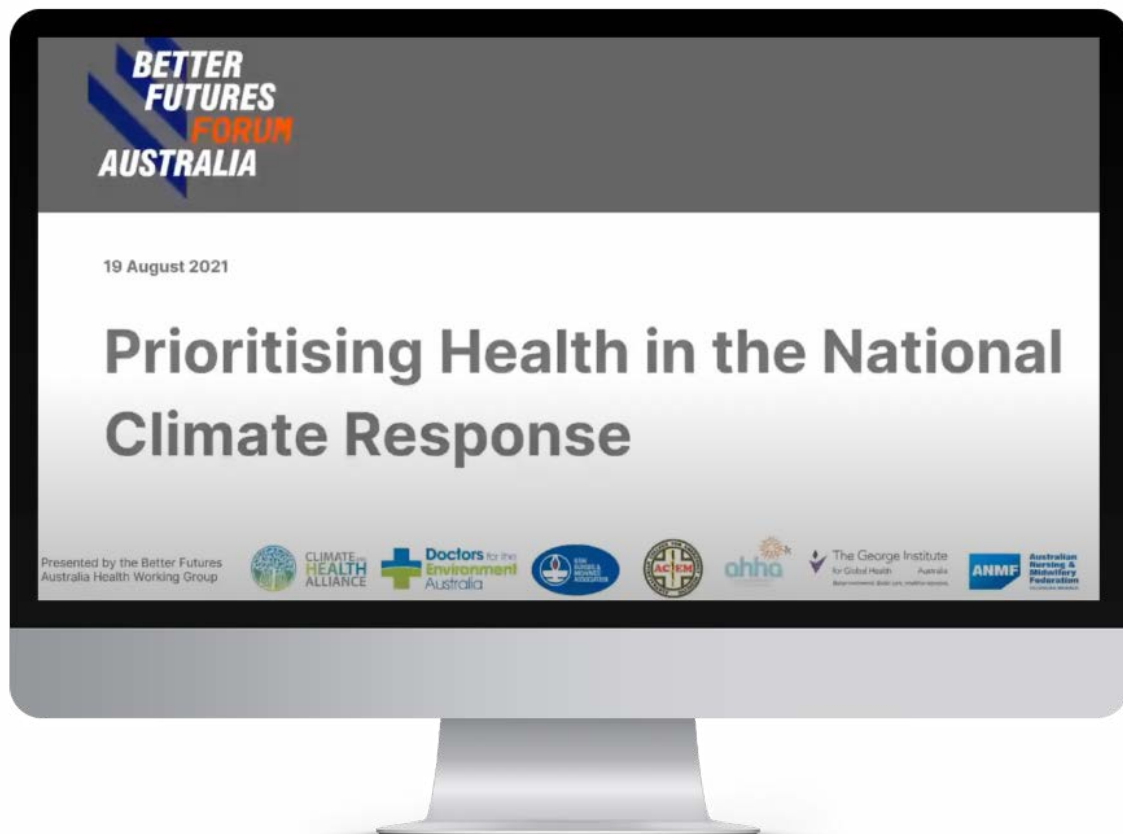
[Better Futures Australia \(BFA\)](#) is a collaboration of leaders across sectors such as health care, business, all levels of government, community, agriculture, and others, to encourage cross-sectoral networking and collaboration to pursue ambitious climate action and advocacy. It is supported by Climate Action Network Australia and partners.

DEA Executive Director Denise Cauchi and Deputy Chair Dr Kimberly Humphrey worked closely with the Climate and Health Alliance and a range of other health organisations as co-convenors of the BFA health sector working group, which mobilised the health sector's involvement in a series of BFA events and actions.

Following several health events earlier in 2021, the flagship three-day event, the Better Futures Forum, took place in August 2021. The importance of this forum was evidenced by the participation of speakers including Ban Ki-Moon (Former UN Secretary General), Dr Omar Khorshid (AMA President), Dr John Hewson (Former Federal Opposition Leader) and many current State and Federal MPs.

Health care sessions included a focus on resilient, sustainable healthcare, the role of healthcare workers as a part of climate solutions, and roadmaps to zero emissions healthcare. Key DEA members in these sessions were Dr Eugenie Kayak, Dr Georgia Behrens, and Dr Kate Charlesworth.

Following the success of BFA in 2021, DEA has continued to be involved in BFA 2022, within the health sector initiatives.



DEA in the media

DEA's traditionally strong presence in the media has continued this year, with our members writing opinion pieces or being interviewed to provide expert opinions that draw the connections between health, climate change and the environment.

The 134 media hits focused on core issues such as climate change, gas, coal, and biodiversity. They spoke to the effects of extreme heat, flooding and air pollution, highlighting both physical and mental health impacts. They also highlighted the health benefits of solutions such as electric vehicles.

DEA's messages were featured in media across the political spectrum of progressive to conservative media, with medical journals also featuring strongly. It also extended to international publications, including Korean Herald and the China Global Television Network.

A joint open letter to the prime minister from Australian Medical Association, DEA and 10 medical colleges was published across the ABC, the Nine media company (which includes the former Fairfax mastheads such as the Sydney Morning Herald, The Age and the Financial Review) and the Murdoch press (including the Herald Sun, The Telegraph and The Australian).

DEA also provided expert commentary on current events and issues. Highlights included DEA Chair Dr John Van Der Kallen's response to the Intergovernmental Panel on Climate Change report, where he was interviewed on several radio stations and for newspaper articles in the conservative media.

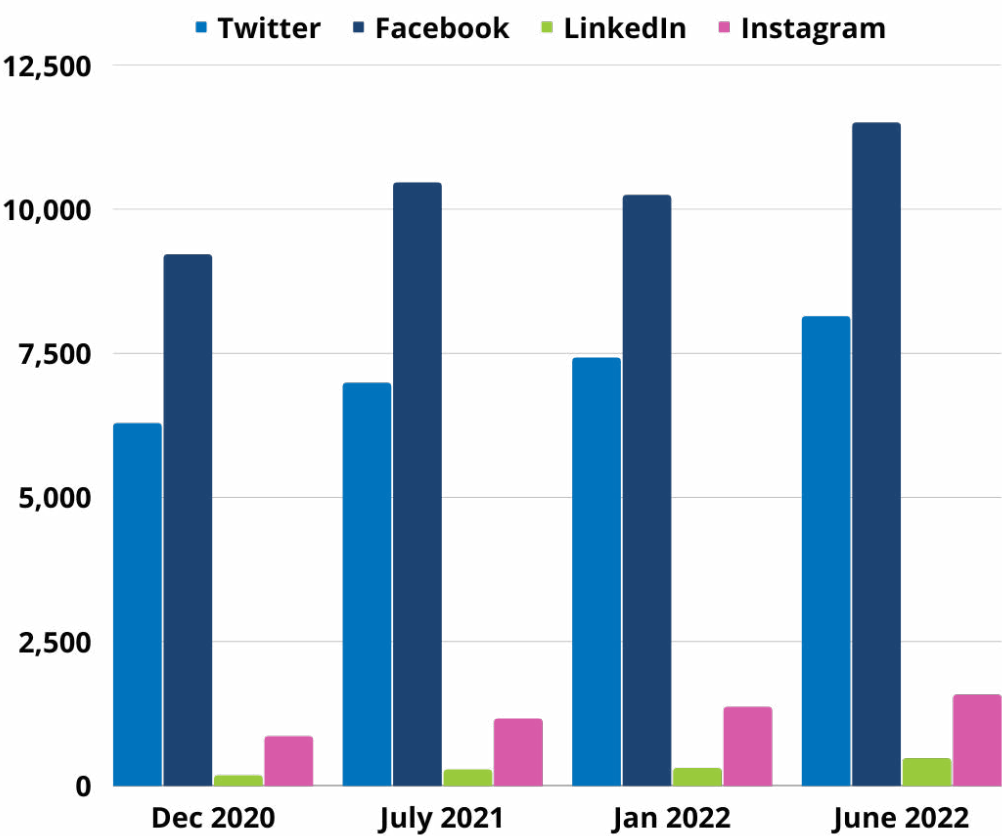
DEA members made the link between climate change and duty of care in medical publications and on local media in their areas of work; suburbs like Woolloomooloo and Subiaco highlighted and published these issues extensively in their local papers, The Wentworth Courier and The Subiaco Post, respectively.

During the federal election, local media covered DEA's work in five key electorates, such as community events, candidates' forums and meetings with sitting MPs, highlighting the importance of climate action for the sake of health at a community level. This local media, combined with national level commentary, resulted in 72 media hits over the election period.

For the full list of media hits see Appendix page 51.

Social Media

In the last financial year, DEA's presence on social media has grown steadily across all platforms, most notably in the lead up to the federal election. Total reach for the year was 83,350.



Sustainable health care

A blue-tinted photograph of a healthcare professional in an operating room. The professional is wearing a surgical cap and a face mask, looking down at a patient. The background shows a large circular surgical light.

Promoting sustainability in health care

Healthcare sustainability was a major focus for DEA this year. Driven by our SustainHealth Special Interest Group, it has included advocacy for the establishment of a national Sustainable Healthcare Unit (nSHU), emission reduction targets and renewable electricity in hospitals, as well as promoting leadership on sustainability within the medical profession. This work is informed by a range of DEA publications including [Net Zero Emissions: responsibilities, pathways and opportunities for Australia's healthcare sector](#).

Advocating for a national Sustainable Healthcare Unit

DEA has been leading advocacy for the development of a national Sustainable Healthcare Unit to coordinate environmentally sustainable initiatives in health care and reduce its carbon footprint.

It would: standardise and benchmark the measurement of carbon emissions; develop a road map for, and assist implementation of, emission reductions and sustainability best practices and; ensure successful implementation of sustainable healthcare initiatives at state, regional, health organisation / network, hospital and practice levels.

In the 2021/22 year we [updated the proposal for a nSHU](#), highlighting the lack of coordinated response around the country to reach net zero by 2040 – and showed a need for coordination between states, standardised measurements and evidence-based policy.

Our partnership with the Australian Medical Association, as well as ongoing dialogue with the previous Coalition Government and the new Labor Government has led to encouraging progress towards the establishment of a nSHU.

Emission reduction targets in healthcare

Building on the support for an [open letter to Prime Minister Scott Morrison](#) in 2021, we are launching a campaign to secure broad endorsement for healthcare emission reduction targets of 80% by 2030 and net zero by 2040. These were established in our report [Net Zero Emissions: responsibilities, pathways and opportunities for Australia's healthcare sector in 2021](#).

We plan to have endorsement from over 40 healthcare organisations, medical colleges and societies as well as both private and public health services by 2023.

Action for sustainability in your hospital

Building on feedback that many clinicians are seeking a guide to help establish sustainability groups in their hospital and ensure the appropriate governance, reporting lines and support structures are in place, DEA is creating an "Actions for Sustainability in your Hospital" toolkit which will be launched toward the end of 2022.

100% renewable electricity in Australian hospitals

We are continuing to lobby for renewable electricity for all hospitals in Australia. Building on the success of the announcement that all of Victoria's public hospitals will be powered by renewable electricity from 2025 (acknowledging that Tasmania and ACT are already on 100% renewable electricity) and Uniting Care Queensland's similar announcement, we will continue to advocate in this space and drive for 100% renewable electricity for 80% of Australian hospitals by 2025.



All-electric design for new hospitals

We have been vocally engaged with a number of hospitals in both public and private sector and in multiple states advocating for all-electric designs for their planned capital builds. By 2024, we aim to work with six hospitals to seek commitment to net zero carbon emissions for future builds.

We produced [DEA's All-electric hospital guide](#) to provide a framework for others to advocate in their own hospitals.

This work has spanned the 2021/2022 years and, although only one hospital to date has been funded (the new Melton Hospital in Victoria) we have confirmed that an all-electric design has been incorporated or will soon be incorporated into the proposals awaiting funding for

- The Royal Melbourne/Women's Hospital (VIC)
- The Geelong Women's and Children's Hospital (VIC)
- The Epworth Hospital in Geelong (VIC)
- Bankstown Hospital (NSW)

We are engaged in earlier stages of advocacy for all-electric designs for

- Frankston Hospital (VIC)
- King Edwards Memorial Hospital (WA)

National Safety and Quality Health Services Standards

DEA is officially represented on the Sustainable Environment Advisory Group of the National Safety and Quality Health Services (NSQHS) Standards for development of the Climate Risk Module.

We are delighted that a number of DEA members – Dr Forbes McGain, Dr Kate Charlesworth, Dr Emma-Leigh Synott - have been successfully appointed to the Sustainable Environment Advisory Group of NSQHS

Other resources

Also this year, DEA produced [GreenCollege Guidelines](#) – a guide for medical colleges, societies and associations to become more sustainable in their own day-to-day activities, reduce the impact of medical conferences and begin to embed concepts of sustainable models of care in the fellows and members.

Lastly, we are developing a [Grand Round Guide](#) to provide guidance to hospitals that are interested in holding a climate-oriented grand round. The guide will provide an overview of the suggested process, some topics (All-Electric Hospitals, Incorporating Climate Change into Postgrad Medical Education), suggested speakers from DEA and a guide to constructing an effective call to action.

Fostering climate action in the health sector, in partnership with AMA

The inaugural AMA/DEA webinar Climate Change and Sustainability: Leadership and Action from Australian Doctors was held on September 14, 2021. Over 350 people attended the two-hour webinar chaired by AMA President Dr Omar Khorshid and DEA Chair Dr John Van Der Kallen to listen to presentations from Dr Nick Watts (Chief Sustainability Officer of the NHS Greener Programme), Professor Mark Howden (Director, ANU Institute for Climate, Energy and Disaster Solutions) and Dr Eugenie Kayak (Doctors for the Environment Australia) and 13 specialist medical colleges.

Dr Kate Charlesworth presented an excellent wrap of the webinar on the evening and co-authored a follow up MJA Insight+ article [COVID-19 is urgent, climate change is important](#) with Dr Khorshid.

The sharing of information and collective enthusiasm to do better was invaluable. A recording of the webinar can be [found here](#). This was the first of an anticipated annual AMA/DEA webinar series to highlight the work of medical colleges relating to sustainability and climate change, to encouraging further action and to enabling them to report back on their progress.

Following the webinar, an [open letter to the Prime Minister](#) calling for more action on climate change in the lead up to COP26 was signed by DEA, AMA, and the Presidents of 10 specialty medical colleges.



Dr John Van Der Kallen, Dr Eugenie Kayak, Dr Kate Charlesworth, Dr Omar Khorshid and Dr Nick Watts speak at the AMA/DEA webinar.

Education

A large audience of people is seated in a tiered lecture hall, viewed from behind two people in the foreground. The entire image is overlaid with a solid blue color. The word "Education" is written in white, bold, sans-serif font in the top left corner.

New healthcare standards integrated into medical curricula

DEA has successfully advocated for the development of new healthcare standards including the Australian Medical Council Prevocational Medical Education Framework, the National Safety and Quality Health Service Sustainable Healthcare Module, and the Victorian Public Hospital Enterprise Bargaining Agreement to include the integration of climate health risks and sustainability into medical education curricula across the country.

To comply with standards and aid this integration, DEA medical students and doctors co-developed [Mapping Climate Change and Health into the Curriculum](#), an easy-to-use curriculum resource tool and supporting slide deck mapping climate change and health to the classically used organ-system medical teaching structure. See page 21 for full report.

Our DEA Medical Education Subcommittee was recently established to coordinate the promotion of DEA medical education resources to undergraduate and postgraduate educators and provide peer support through development of a community of practice.

Dr Laura Beaton, Shrey Mago and National Student Committee representatives are leading the work in the medical school space and Dr Sonia Chanchlani is working with teaching hospitals and specialty colleges across the country who have shown an interest in piloting the integration of these medical education resources into their curricula. Dr Monika Coxa has joined the Postgraduate Medical Council of Victoria working group updating the postgraduate medical education curriculum framework and Dr Cybele Day and Dr Anna Seth have been focused on cross-sector mental health collaboration and education including new DEA mental health factsheets, webinars, and we are currently workshopping a new planetary health risk assessment framework.

We have been working closely with the DEA podcast team, Drs Kaiya Ferguson and Karin English, to promote DEA educational topics and Dr Annabelle Warren is leading the development of a Grand Rounds Package.

Contact Sonia (soniachanchlani@gmail.com) if you are interested in working with the Medical Education SubCommittee to promote planetary health education resources within your health organisation.

Embedding planetary health into the medical curriculum

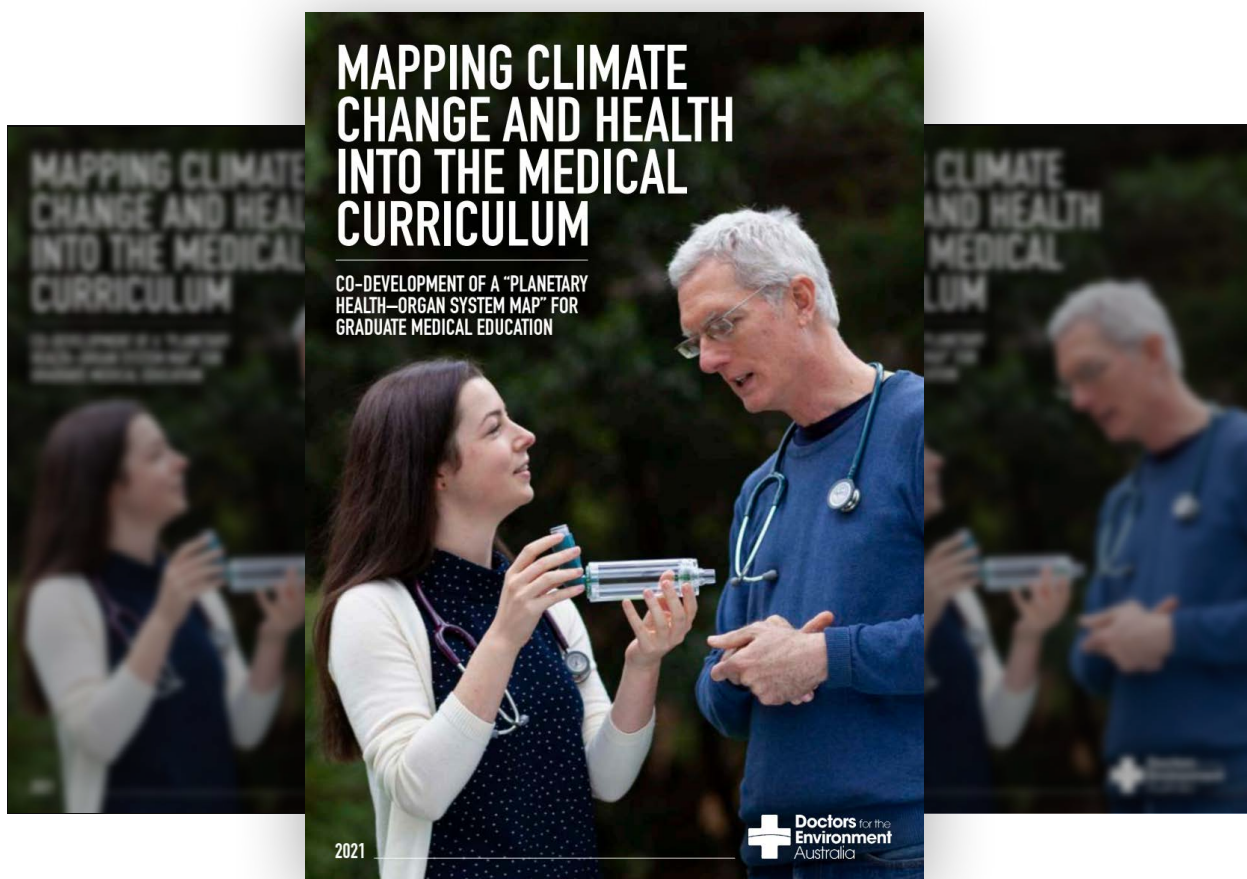
Mapping climate change and health into the medical curriculum is a new planetary-health-meets-organ-system curriculum resource that connects planetary health concepts with patient care. Co-developed by DEA medical students and doctors, this easy-to-use tool enables medical educators to locate clinically relevant climate change and health teaching points in each major body system, using the organ-system teaching structure. Using a unique integrative model, this curriculum map resource exemplifies planetary health as a cross-cutting core theme of medical training.

It is imperative that educating the medical workforce to understand, address and mitigate the health effects of climate change is integrated into all levels of medical education.

The project now completes its fifth year since inception. It is now embedded as core work of DEA - ensuring the medical profession is educated about the physical and mental health impacts of climate change, and the health benefits of climate action.

Concurrent to DEA's work, the Australian Medical Council is reviewing the accreditation standards of primary medical programs and has released updates to the National Framework for Prevocational Medical Training, strengthening a top-down national approach to producing climate-aware and prepared practitioners. In Victoria, a very first 'Climate and Sustainability clause' has been approved in Doctors in Training and Medical Specialist Enterprise Agreements, requiring Health Services to provide for engagement, education and discussion on climate change mitigation. The curriculum map provides a basis for these higher-level changes to be practically implemented.

At an institutional level, DEA's curriculum mapping team have continued their volunteer work at the University of Melbourne, securing seed grant funding to further develop the curriculum resource. Additionally, the team continue to network with Allied Health faculty, and others, such as the Department of Critical Care. The curriculum mapping resource can be [found here](#).



Resources, presentations and papers

DEA provides easily accessible information and education to the public, politicians and the health sector, translating and communicating the scientific and research evidence on issues relating to the health of the planet and its impact on human health.

In 2021-22 DEA released the following publications and fact sheets:

- Fact Checking on Meeting GHG Targets; DEA report Sep 2021: Dr Ben Ewald
- Proposal for a National Sustainable Healthcare Unit; DEA report Sep 2021
- How Climate Change affects Mental Health in Australia - Mental Health Working Group; DEA report October 11 2021: Dr Cybele Dey, Dr Anna Seth
- Mapping climate change and health into the medical curriculum: co-development of a planetary health-organ system map for graduate medical education; DEA report November 2021: Dr Hayden Burch, Benjamin Watson, Grace Simpson, Dr Laura Beaton, Dr Jane Maxwell, Assoc Professor Kenneth Winkel
- Building the next zero hospital to be net zero carbon emissions (all-electric): A six step practical guide for medical professionals; DEA report March 2022: Dr Benjamin Dunne
- How Climate Change Affects Your Health: The Facts; DEA Aug 2021

Our members also delivered 35 presentations to medical and community audiences on a range of topics related to health, climate, the environment and sustainability, and were authors or co-authors for 9 peer-reviewed journal articles on related topics.

Webinars grow in popularity

The After Hours webinars have continued over the past year, with a hiatus during the federal election campaign period. They provide regular opportunities for DEA members and other health professionals to learn more about climate and health and are accredited Continuing Professional Development (CPD) activities for GPs.

All the webinars are facilitated by Dr Kate Wylie. Attendance varied with a range of 50-120 attendees, with consistently positive feedback.

The webinars were:

- Mental Health in a Time of Climate Crisis, with Dr Grant Blashki and Dr Anna Seth.
- Climate Action for Health Professionals, with Dr John Van Der Kallen, Dr Kim Loo, Dr Kate Wylie and Denise Cauchi.
- Nature Prescribing, with Dr Dimity Williams.
- Planetary Health, with Dr Kate Wylie.
- Hot Off the Press, with IPCC lead author Dr Nina Lansbury.
- Climate Action: Addressing emissions in clinical practice, with Dr Roger Harris from CODA.



Podcasting on sustainable health and planetary health

DEA's regular podcast covers planetary health topical issues and DEA's projects. Created by Dr Karin English, a Public Health Registrar living and working in Canberra, on Ngunnawal country, and Dr Kaiya Ferguson, an Emergency Medicine Registrar living and working in Alice Springs, on Arrernte country, it hosts interviews with a variety of guests including DEA members, medical students, professors, and authors.

The podcast launched its first episode in 2020 and has since produced numerous episodes each year. Highlights over the last 12 months include Environmental Impacts in Pregnancy with Dr Kristine Barnden; COP26 and Climate Change Policy with Dr Beau Frigault and DEA Executive Director Denise Cauchi; Healthy Environments and Lives Network (HEAL) with Professor Sotiris Vardoulakis and Personal Protective Equipment waste with Dr Forbes McGain.

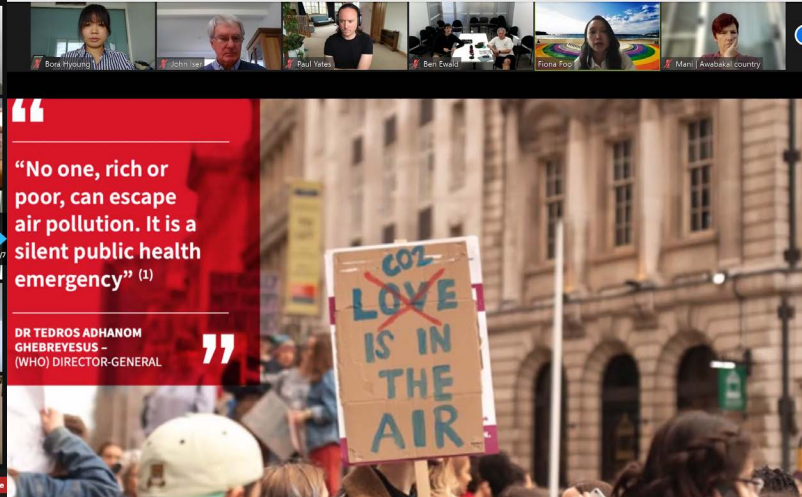
The podcast has been undergoing technical upgrades in recent months and the producers are excited to create short, relevant, and informative podcasts for DEA members and the wider community.

The vision of the podcast producers is to provide members with updates on DEA's projects, sustainable health, and planetary health. The team welcomes any feedback or suggestions or ideas for future episodes and introductions to new podcast talent for interview.





Participants at the iDEA2021 conference joined in online.



Participants listen to guest speakers on the topic of clean air and carbon pollution.

Treating the ailing planet with a healthy dose of hope

DEA's annual conference, "iDEA2021: Planet Health and Hope" was an exciting motivating event, held online from October 16-17, 2021.

Marking DEA's 20th anniversary, it demonstrated how much the organisation has grown. From a group that started with six doctors talking about the links between climate and health, we are now hosting a conference with national and international speakers that has served to galvanise the need for climate action in Australia. From little things big things grow.

"Planet, Health and Hope" assessed the current state of climate and health on our planet and then looked at ways that we can treat it. As a conference for health professionals, the aim was to show climate as a health issue, inviting the clinician to look at ways to remedy it. We learned about global warming, tipping points and the need for urgent reduction of fossil fuel use, the equally concerning problem of biodiversity loss, the impacts of pollution and the effects of all these on human health. We were blessed with wisdom from a First Nations plenary, improving our understanding of the need for solutions that embody Indigenous knowledge.

We learned of the plight of the Murray Darling Basin and were inspired by marine drawdown solutions. These problems are emotionally hard, and an important part of the conference was our session with Psychology for a Safe Climate who supported us with our climate distress. We were able to share our emotions in a safe environment.

We looked at the politics surrounding the climate debate. Firstly, on a global level with a presentation from the Global Climate and Health Alliance and secondly in our Politicians

Plenary where we were honoured to be joined by members of our federal parliament, namely Chris Bowen, Zali Steggall, Helen Haines and Sarah Hanson-Young.

We know that it is vital that there is a political response to the climate crisis, and it was gratifying that these elected representatives understood the need for such a response.

A further solutions focus was greening health care and we learnt about the example for the UK National Health Service Sustainability Unit as well as work DEA members are doing in Australia and of our partnership with the Australian Medical Association. There is lots of work to do to green our health care system, but it is reassuring to know that there is so much good work happening within our hospitals and in general practice. We then looked at solutions from other sectors including diet and agriculture, economics, engineering, and the law. These last sessions were truly inspiring and show that across our country people from different backgrounds are working on climate change and that there are a myriad of solutions available to us.

The problems facing our planet are grave and it is hard not to be overwhelmed by the size of the planetary health crisis. But what the conference showed is that human ingenuity can solve many problems and if we work together humans are powerful. And this gives us hope, not the cross your fingers in the corner kind of hope, but the hope that comes with action, the hope that comes from knowing that the combination of our efforts and the refusal to give up is the treatment pathway we need to ensure the health of humanity and the beautiful planet on which we all live.

Thematic interest areas



Air

Protecting air quality

In June of 2021 the Air Special Interest Group (SIG) made a submission to the NSW Portfolio Committee number 7, Planning and Environment Inquiry into the Protection of the Environment Operations Amendment (Clean Air) Bill 2021, then were asked to give evidence to a hearing in October. The purpose of the inquiry was to examine evidence in support of a bill introduced by Greens MP Abigail Boyd, proposing pollution limits for NSW power stations in line with current practice in overseas jurisdictions such as Europe, USA or North Asia. Dr Ben Ewald spoke to the inquiry about the harmful effects of air pollution, that it travels long distances, and the current standards that are five to 10 times worse than the proposed standards. We got a good hearing, but the bill was defeated.

Submissions

In October 2021 we wrote a submission opposing the granting of an exemption to Vales Point coal fired power station which would allow it to continue polluting beyond the limits set in the Protection of the Environment Operations Act (POEO) regulations. The 2010 regulations have a phase out clause, that old plants meeting old standards must update to the more modern standards by 2012, but exemptions can be granted for up to five years. Vales Point power station has cynically used sequential exemptions in 2012, 2017 and again in 2022 to have rolling five-year exemptions and still does not meet the NO2 standard of other generators in the state.

Our health impact assessment estimate that 650 children in Lake Macquarie and Central Coast LGAs have asthma due to power station NO2 got extensive media coverage and was used by local environment groups in their campaigning. The generators even put on paid consultants to try to rebuff the calculations but achieved little traction.

Collaborations

The chair of the Air Special Interest Group Dr Ben Ewald often attends the teleconference of the NSW coal power impacts fortnightly check in, along with participants from environment groups including Nature Conservation Council, Environmental Justice Australia, The Sunrise Project, Healthy Futures, Hunter Community Environment Centre and Future Sooner. This is extremely helpful to keep abreast of campaign opportunities, especially where a voice on health advocacy will add value.

The central coast group Future Sooner did an installation of 650 child cut-outs to represent asthma cases attributable to power station NO2 and we spoke at several public meetings in support of their work, as well as in their video production.

SIG members have developed a patient education sheet on gas stoves and asthma and are writing a journal article for Australian Journal of General Practice on health risks of indoor gas appliances.



Biodiversity

The past year has been a busy one for the Biodiversity Special Interest Group. The group saw a change earlier in the year, with Associate Adjunct Professor Dr Marion Carey stepping down from the convener position. Dr Brooke Ah Shay has taken over the position and is based in the Northern Territory.

The group has continued to grow over the past year and now boasts 15 passionate members.

We have partnered with People and Parks Foundation's "Nature Pact Campaign" and held journal club meetings that discussed topics such as oceanic biodiversity and the Great Barrier Reef.

There have been efforts from group members to put biodiversity on the radar in the media by publishing letters and op-eds in the likes of The Medical Republic and The Age.

The group contributed to DEA's Political Asks document, ensuring that biodiversity was well represented.

The group has also been meeting regularly to decide on its future direction, so watch this space because exciting announcements to come.



For the first time, Gouldian Finches have been found at Lee Point in Darwin.
Photo: Dr Brooke Ah Shay.

Mental health

In its first year, the Mental Health Special Interest Group has been raising awareness about the mental health impacts of climate change and advocating for policy change, as well as connecting with other organisations working in the developing field of climate change and mental health. Some highlights include:

College advocacy

Members have been involved in college advocacy which contributed to the Royal Australian and New Zealand College of Psychiatrists' updated Position Statement, (Dr Lisa Juckes, Dr James Scott, Dr Charles Le Feuvre and Dr Cybele Dey) and the Multi-College Report led by the RACP's Dr Anthony Harris. Members have also been involved in the formation of the NSW RANZCP Branch Climate Psychiatry group (while awaiting Binational group).

Peer education

SIG members have contributed to peer education through webinars with CAHA, Australian Association of Family Therapists, DEA's After-Hours webinar series and The Association of Child and Adolescent Mental Health (UK). There have been conference contributions to the Association of Child and Adolescent Health, and a significant contribution of presentations, symposia and workshops to RANZCP Congress curated by members Dr Cybele Dey and Dr Lisa Juckes. In undergraduate education, Dr Cybele Dey and others have contributed thoughts on mental health to the DEA curriculum mapping project.

Reports

In October 2021 we released our first report: Report: How Climate Change Affects Mental Health In Australia - DEA which was widely shared. Dr Cybele Dey, Dr Anna Seth, Dr Michael Dudley, Dr Rosalie Schultz and Associate Professor Alan Rosen all contributed to this important report.

Media

We have also been active in the media, with several articles by Dr Cybele Dey and other members appearing in local and national media. See media report page 51.

Meetings with politicians

Dr Cybele Dey has been working hard engaging with politicians, having met with Dave Sharma (Former Liberal MP, Wentworth), Adam Bandt, David Shoebridge and Dominic Wy Kanak and Aboriginal Elder, Aunty Rhonda Grosvenor-Dixon, Hon Sophie Scamps, Hon Kylie Tink and Hon Allegra Spender ahead of the Federal Election.

HOW CLIMATE CHANGE AFFECTS MENTAL HEALTH IN AUSTRALIA

DOCTORS FOR THE ENVIRONMENT AUSTRALIA

Divestment

The Divestment Special Interest Group has grown over the past year and has continued with ongoing high-level engagement with industry super funds and with the Commonwealth Bank of Australia. Each of the super funds are asked to consider responsible investment in different ways. The AGL demerger proposal was a good example of this. It was abandoned by AGL when it realised there would not be enough support for it from a shareholder campaign, which was supported by DEA. The benefits of HESTA super fund's emphasis on continuing to engage with polluting companies such as AGL was illustrated.

The South Australian branch of the divestment SiG initiated a well-informed approach to 22 universities regarding their investments.

Towards the end of the year our regular meetings with Commonwealth Bank were interrupted when our main contact person left. Requests to restart meetings have so far not been successful. We have learned that engagement can be reliant on the individuals you build a relationship with and ensuring continuity is not always possible.

Maintaining strong engagement with the super funds, banks and universities has been more difficult over the past year. Many organisations do not respond to our approaches. We need move beyond engagement and put our work into a campaign strategy in the coming year. Upskilling the team and holding a strategy meeting will be our first priority.

First Nations solidarity

DEA's First Nations Solidarity group is working to fulfil DEA's commitment to building relationships of genuine solidarity with Aboriginal and Torres Strait Islander peoples. We began by engaging Dean Duncan as an advisory consultant to provide guidance for DEA in beginning this journey, from which the following priorities were identified:

- Creating a culturally safe environment within DEA for Aboriginal and Torres Strait Islander staff and members
- Supporting DEA committees and members to include justice for First Nations people in their messaging
- Increasing the representation of First Nations Australians across DEA's platform, including newsletters and social media
- Identifying important dates and events in our calendar
- Highlighting First Nations-led initiatives in caring for Country and addressing the impacts of climate change.
- We are now prioritising the recommendations of the report for action.

Journal club: This year the First Nations Solidarity group hosted two online Decolonising Solidarity Journal Club sessions, in which DEA members got together to discuss texts and podcasts to reflect on decolonisation, solidarity, self-determination and justice for First Nations peoples.

Submissions: Members of the group made private submissions to:

- Senate inquiry into United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) in Australia
- Origin Energy proposed fracking in Beetaloo Basin, Northern Territory.

Gender

Doctors For the Environment Australia and the Australian Federation of Medical Women (AFMW) are working together to bring attention to the gendered impacts of climate change, as women are disproportionately affected due to their traditional family roles as carers, their lower incomes, reduced access to credit and resources.

Our two organisations signed a Memorandum of Understanding in April 2021 to:

- Advocate for policy change at a national level that addresses the climate health emergency with the provision of evidence-based data where available.
- Educate and mobilise the medical community to act on climate change;
- Enhance understanding of the intersection of gender and climate change – among the medical profession, the public, and government, as well as within our organisations.

The Intergovernmental Panel on Climate Change (IPCC) describes in detail how gendered inequities are exaggerated by climate-related hazards, as they result in higher workloads for women, occupational hazards indoors and outdoors, psychological and emotional stress, and lead to higher mortality compared to men.

DEA and the AFMW are united in the quest to address the gendered impacts of climate change as we work to protect the planet that sustains us.

As part of this joint effort, we acknowledge the contributions women make to creating solutions and concur with The World Economic Forum which states that 'we can solve climate change if we involve women.'

Our first joint project included an article in MHA Insight, co-authored by Associate Professor Magdalena Simonis (President AFMW) and Dr Kimberly Humphrey, (Deputy Chair DEA) on September 6th, 2021, titled "[Climate change impacts women more than men](#)".

In March of 2022, AFMW hosted a parallel session at the United Nations Commission on the Status of Women 66th (UN CSW66) forum. The priority theme of this year's forum was, "Achieving gender equality and the empowerment of all women and girls in the context of climate change, environmental and disaster risk reduction policies and programmes". In accordance with this, AFMW's parallel session title was: "Australian Women Doctors: Climate Change and Gender Equity Advocates and Activists." Dr Kimberly Humphrey gave a powerful presentation, "Empowerment of women - the good work being done by women to mitigate climate change." Other prominent DEA members who presented include Dr Kate Wylie, "Becoming a climate activist: getting off the couch."

A link to the session is available here: <https://youtu.be/n0nqLhxCiVs>

Drs Magdalena Simonis and Kimberly Humphrey both published an article in Neos Kosmos regarding the climate health emergency and its impact on women.



Dr Magdalena Simonis



Dr Kimberly Humphrey

Committee reports



New South Wales

DEA NSW has been prominent in environmental issues and on climate action in NSW. Our trusted voice was a valuable tool in a federal election year, which was also a year where many of our communities have been afflicted by natural disasters, particularly the devastating floods in northern NSW and north-west Sydney.

Notable activities include our community campaign for climate action in the Wentworth federal electorate, meetings with election candidates and new members of parliament, and interviews and features in multiple media outlets, including state-wide newspapers such as The Sydney Morning Herald. Examples of issues promoted and explained in the media included the mental health impacts of climate change; air pollution; floods; heatwaves and climate change.

One of the challenges has been to extend the reach to all parts of the state. However, our membership base continues to increase, and the number of active members has increased also. The effective individual actions at all levels of government and within the community has also been a key strength of our committee this year and has furthered our collective reach in communities throughout NSW.

Our year has been a rewarding one, but DEA NSW remains motivated to continue lending our voices to debate, educating our colleagues and the community, and fighting for our members of parliament to do the same for health and climate.



Northern Territory

The Northern Territory division of DEA changed last July after Dr Kristof Wing stepped down from the Chair position and Dr Brooke Ah Shay became Chair. Shortly after the change, the NT's first official committee took shape.

Several significant achievements were completed in that time, including a submission to the NT Environmental Protection Authority in February about the Darwin Pipeline Duplication Project; the establishment of a relationship with the Northern Territory Environment Centre, the Territory's peak environmental organisation.

Members are kept up to date with regular emails that summarise the key health-environmental issues affecting the Territory, and there is now a Facebook group for NT DEA members to join. From fracking to land clearing to gas mining to water allocation, the issues affecting the NT are many, so we look forward to seeing how these issues can be tackled in future.

Several NT DEA students also attended the Global Climate Strike in Darwin in March.



Brooke Ah Shay is the new chair of the NT branch of DEA

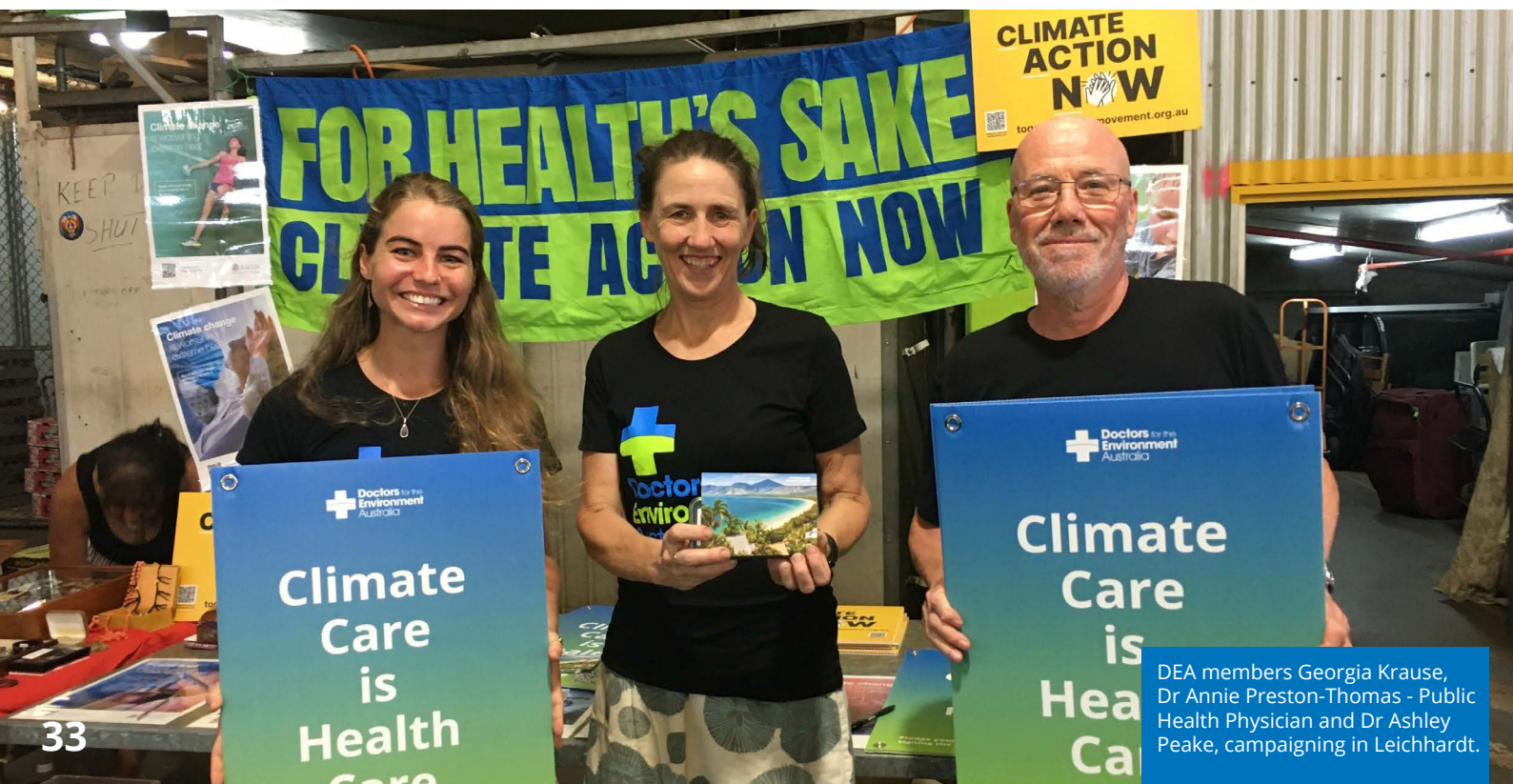
Queensland

Cairns GP Dr Nicole Sleeman was instrumental in leading a campaign in the electorate of Leichardt in the lead up to the federal election, raising awareness of the health impacts of climate change.

With the Bureau of Meteorology at Cairns Airport reporting the highest number ever of consecutive March days over 35C, Dr Sleeman said she was presented with more patients than she would normally see, suffering from heat-related illness. They were all otherwise fit and healthy, and totally unaware of the health risks of heatwaves, she said.

DEA was also prominent in the 2021 Greening the Healthcare Sector Forum coordinated by the Climate and Health Alliance and Uniting Care which was held in Brisbane on 30 November 2021. Queensland State Committee members Dr Pieter Jansen and Dr Kathryn Woolfield had active roles as members of the steering committee, and chair for one of the sessions, respectively. Also, multiple national DEA members spoke on the event, including Dr Kate Charlesworth, Dr Kate Wylie and Dr Ben Dunne.

In June 2022, Queensland Branch Chair Beau Frigault was invited to complete an Op/Ed in the Gold Coast Bulletin where he wrote about medical practitioners' concerns with increased incidence of heat stroke presenting at emergency, the increase in Ross River Virus and Dengue Fever and illnesses he had not previously experienced a predominance of on the Gold Coast.



DEA members Georgia Krause, Dr Annie Preston-Thomas - Public Health Physician and Dr Ashley Peake, campaigning in Leichardt.



The South Australia Committee led a campaign in the electorate of Boothby.

South Australia

Federal election campaign

South Australian members engaged in a targeted campaign in the federal electorate of Boothby.

Going into the federal election, Boothby was the 4th most marginal Liberal seat in the country and the only marginal electorate in South Australia, making it the obvious place to highlight the importance of climate action.

DEA worked in partnership with Australian Parents for Climate Action, the Australian Conservation Foundation and the Conservation Council of SA to ensure that climate change was the core issue of that election campaign. The seat swung to Labor and is now held by that party.

DEA SA ran an online candidate forum early in the campaign period and was able to have all candidates attend, including the Liberal candidate, Rachel Swift. Our other campaign activities included MP and candidate meetings, 350 postcard petitions signed, a Picnic for our Planet, a snap climate rally and participation in other forums. (See campaign report page 10)

SA committee members

Late in 2019, Dr Doug Shaw and Dr John Willoughby stepped down as chair and secretary, having served in those roles for around five years. Dr Kimberly Humphrey was elected chair and Dr Kate Wheldrake secretary.

Under the difficult circumstances of the pandemic and a heavy clinical workload they continued through 2020-2022 to help the committee thrive, particularly with active student engagement.

In May 2022 Dr Humphrey accepted a scholarship on planetary health in Boston beginning July 2022. The state committee were delighted at Dr Humphrey's opportunity, a testament to her standing in the climate and health sphere.

Dr Doug Shaw has, temporarily, resumed the chair in Dr Humphrey's absence. Dr Kate Wheldrake is taking time off from DEA secretarial business while her baby and work consume her time and has handed over secretarial duties to students Richard Le and Gina Wang.

Professor David Shearman, co-founder of DEA, has remained on the SA Committee, continues to write prodigiously, and to provide invaluable input to our committee.

Business and divestment Special Interest Group Activities

In 2022, the DEA South Australian divestment group continued working with Funds SA and Super SA where they have established ongoing lines of communication with the executive team. They provided feedback on the socially responsible investment option and advocated for a climate change policy with specific and measurable goals. The group is also pursuing the stance of universities across Australia with regards to the investment of their monies and whether it aligns with best practice environmental, social and governance (ESG) standards.



Dr David Everett, Dr Rob Ferris, Jo Dyer, Dr Pam White and Dr Graeme McLeay

Tasmania

DEA Tasmania continues to provide a space for health care professionals passionate about health and the environment to socialise and meet other like-minded colleagues. The lead up to the election was a busy time for many members and success of the organisation is evidence for all the hard work that everyone has put in!

We hope to plan more social events for everyone to reenergise as we move onto new projects.

Victoria

The Victorian SustainHealth working group have lobbied persistently against new hospital gas connections, with Melton hospital now committed to an all-electric build, and ongoing conversations on the Royal Melbourne Hospital Arden St campus and Geelong hospital, thanks to the efforts of A/Prof Forbes McGain, Dr Mike Forrester and Dr Ben Dunne.

The Higgins electorate working group, led by Dr Catherine Pendrey, ran a successful non-partisan campaign in the lead-up to the federal election, promoting climate change and health as an important election issue. Involved members have established a positive dialogue with the newly elected member post-election, promoting DEA's proposal for a national Sustainable Development Unit (nSHU). Other committee members are also approaching newly elected MPs in their local areas for the same.

VicDEA medical students and doctors including Dr Laura Beaton, Dr Hayden Burch, A/Prof Ken Winkle,

Grace Simpson, Dr Benjamin Watson and Dr Janie Maxwell, co-developed Mapping Climate Change and Health into the Curriculum, a curriculum resource tool soon to be published in the Medical Journal of Australia. Dr Monika Coha is working closely with the Postgraduate Medical Council of Victoria to integrate this work into an intern curriculum framework. The DEA Medical Education Subcommittee was recently set up by Dr Sonia Chanchlani to coordinate the promotion of these education resources to undergraduate and postgraduate educators and provide peer support through development of a community of practice.

Committee members continue to plan toward a meeting of key stakeholders in the Victorian department of health, with the aim of cutting carbon emissions generated by the healthcare sector and forming a SHU. This has included groundwork of a survey to be distributed to hospital CEOs to explore barriers to sustainable change and procurement.

Victorian committee members gave 26 presentations on a range of topics relating to climate change, environmental protection and healthcare sustainability to both the general public and medical audiences.

The committee has also worked on engaging members despite COVID restrictions, contacting newly joined members by phone, social media activity, and social events including the virtual student-hosted trivia night in August 2021, an end of year celebration catch up hosted by Dr Sonia Chanchlani and Dr Ben Dunne in Dec 2021, a trip to Tahbilk winery in Jan 2022, and an open invite meet and greet at Welcome to Brunswick in May 2022.



Members of the Tasmanian DEA gathered for a social event in Hobart



Mike Forrester, Sonia Chanchlani, Annabelle Warren and Scott Abbinga at DEA and Healthy Futures' stand at the Royal Australian College of Physicians Congress in Melbourne.

Western Australia

The main activity for the Western Australia committee this year was a campaign in the electorate of Curtin, leading into the federal election. See main story page 10.

The committee has also been busy with state AMA engagement – co-ordinating and assisting in quarterly forums bringing medical colleges and health services together to provide regular updates on progress and initiatives being made within the health sector. There has also been ongoing representation in the WA Climate and Health Community of Practice - which works across sectors to build relationships, share knowledge and generate momentum around climate and health.

Members have been regular contributors to the state's press/media including in local papers and assisting in radio interviews. They have presented at other conferences or forums, including one member giving a TEDx talk on the health impacts of fossil fuels.

Members also presented at the Medcon22 on sustainability in the health sector from a range of perspectives.

We have had two members now being part of the Sustainable Health Unit, first Sallie Forrest but since taking maternity leave, WA Chair Emma Leigh-Synnott, has stepped into the position. Members are also engaged in their hospitals and health services - actively being involved in medical education, including regular grand rounds and online journal clubs/network meetings.

There has also been ongoing engagement with medical students and medical schools and with the UWA school of medicine to implement changes within the curriculum to include more on climate change. Following meetings organised by UWA students with members of DEA and the Vice Dean, teaching in climate change and health has been expanded from a 3rd year lecture to a session in each year. There have also been informal meetings and contacts with Notre Dame and Curtin University to promote this curriculum.

In WA climate advocacy in the broader climate movement has been focused on stopping new developments including Woodside's Browse project. DEA made a submission as part of an appeals process and many members also contributed individual submissions.



DEA students active across the country

During the federal election campaign this year DEA students were actively involved in campaigning with DEA doctor members around the country. The National Student Committee engaged with medical students and provided information about each party's policies and goals.

Students collaborated with Vote Earth Now for a mini-film festival before the federal election. Placing emphasis on the importance of the environment, students invited all campuses to join the event held simultaneously throughout Australia. Universities who participated included the University of New South Wales, the University of Adelaide and the University of Newcastle. Attendees could also Zoom in from their homes. The purpose of these films was to educate attendees about the importance of their vote and voice, and how it could affect the environment.

The student committee conducted a mini campaign asking students to reshare on their social media accounts news on the federal election, and how their vote mattered.

Another of our main activities this year was the promotion of iDEA22, held at the University of Melbourne, with our social media officer Mia Malagar working tirelessly to promote student tickets for the conference. University of Melbourne students were heavily involved in the planning of the conference and volunteering.



We also sponsored the Australian Medical Students' Association's Global Health Conference.

University of Melbourne students held events for Clean Up Australia Day, cleaning up the Merri Creek Trail, and a Waste Free March event, where all students were encouraged to bring waste-free lunches to university/their hospitals for the month. Participants sent pictures of their lunches to the DEA Facebook page, which were tallied at the end of each week to decide the winner. It also encouraged students to be more mindful of the waste generated by meals they pack to university or their clinical school, and provided them with incentives to reduce waste. By reposting pictures of people's waste-free meals, we also hoped to give people ideas of the kind of food that can be packed.

Students also held an academic panel discussion at the University of Melbourne MD Student Conference discussing the greening of health systems in collaboration with DEA Vic doctors. At the same conference a wellbeing herb pot planting event explored the importance of food miles and plant-based diets.

Monash University students held the Amazing Race Environment Challenge in May.

This event was held to increase engagement with our organisation and raise awareness of our aims and objectives. There was a climate conversation component to encourage dialogue around climate change, the challenges we face and our capacity for creating change at both the individual and community level. Additionally, through our challenges we hope to promote sustainable practices in eating, fashion and other areas.

In Sydney, students at the University of New South Wales held a climate rally banner-making night in March, with the subsequent Sydney climate rally on March 25. The event directly promoted and advocated for urgent climate action. By marketing this event to medical students, we aimed to generate interest in DEA's mission and encourage willing students to join.

In Canberra, students at the Australian National University held a Tree Planting Event in April. It aimed to improve awareness among medical students about the importance of protecting native plantations and healthy ecology, but also emphasised how environmental health plays an important role in well-being. The event was a collaboration with ACT Urban Woodland Rescue on their project in St Marks, Bardon, in restoring a small area of native box gum woodland.





Students at Melbourne University in the Waste free March event, gather with their lunches.

Integrating climate and planetary health into medical student curriculum

Building on work from previous years, students have continued to be involved in the integration of climate and planetary health teaching into medical education. At the university level, students and academics from the University of Melbourne were involved in meeting with the senior faculty members to discuss the continued integration of this content. This has started an important relationship between the School of Medicine and DEA for further integration and has been fruitful in providing a formalised Sustainability lead within the faculty, DEA member Dr Eugenie Kayak.

Our Project Officers have been working with DEA doctor members to advocate for the inclusion of more climate change teaching in the medical school curriculum. DEA doctors and students look forward to contributing to the Australian Medical Council standards update for Primary Medical Schools later this year.

Students across universities also met for the first time to discuss ways to support one another in this important integration work, with student leaders present from across the country. This was facilitated by members who have been active in this area and will provide ongoing support to these students.

National Students Committee members

Rose Phan (Chair)

Jumpei Takeuchi (Chair-Elect)

Victor Ly (Administration Officer)

Kara Nimon (University Coordinator)

Mia Malagar (Public Relations Officer)

Seamus Heanue (Project Officer)

Shreya Mago (Project Officer)

Rachel Niesen (Project Officer)

Our people



Membership

Membership continued to remain strong with the recruitment of new members as well as the return of some past members ahead of the election in May 2022.

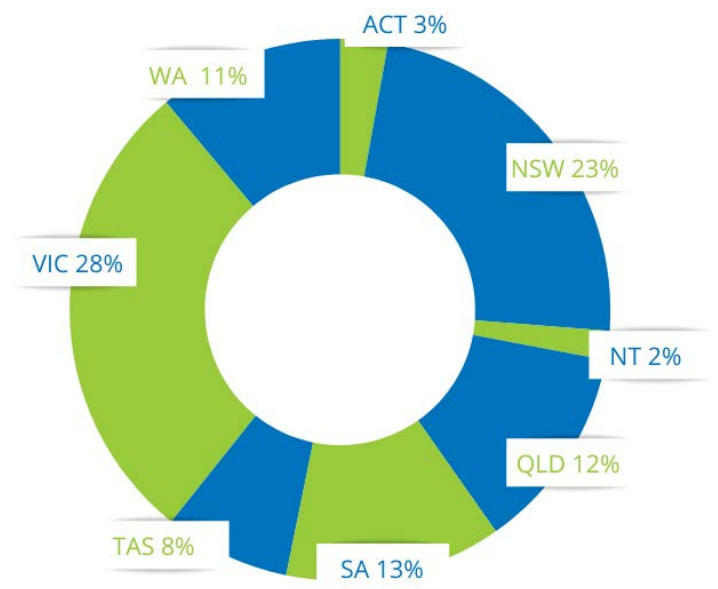
Members continued to demonstrate their commitment to DEA through:

- leading committees and special interest/working groups
- writing submissions and meeting MPs
- campaigning
- media work, including journal articles, opeds, interviews
- creation of education material, reports, webinars and podcasts
- attending and supporting numerous events throughout the year.

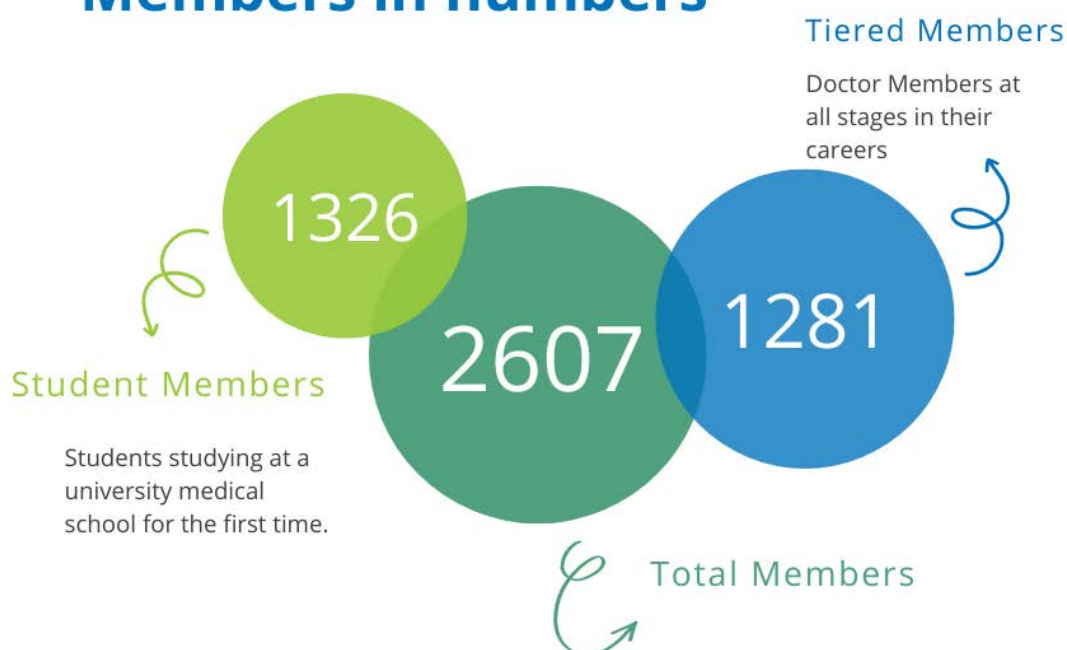
DEA's members also financially support the organisation, with 75% of our income coming directly from membership fees and donations.

We thank all our members for their willingness to support their organisation. Member growth and engagement has seen DEA expand its reach and works to ensure our vision of a Healthy Planet, Healthy People is central to discussions regarding climate change and health.

Members by State



Members in numbers



Our people

Board Members

Dr John Van Der Kallen	Chair
Dr Kimberly Humphrey	Deputy Chair
Dr Kristof Wing	Treasurer
Dr Georgia Behrens	Secretary
Dr John Iser	Member
Dr Kate Wylie	Member (Nov 2021)
Dr Marion Carey	Member (Nov 2021)
Dr Sonia Chanchlani	Member (Nov 2021)
Dr Stefanie Pidcock	Member
Rose Phan	National Student Representative (Nov 2021)

The following Board members retired on November 21, 2021

Dr Beau Frigault
Dr Katherine Barraclough
Dr Richard Yin
Georgia Brown (National Student Representative)

Staff

Denise Cauchi	Executive Director
Athena Dennis	Digital Strategist/ Communications Manager (Jan - June 2022)
Carmela Ferraro	Media Manager
*Chloe Adams	Media Manager (Jan - Feb 2022)
Janelle Sewell	Campaigns Coordinator (July 2021 - June 2022)
Jesse Thompson	Digital Communications and Campaigns (July - November 2021)
Jode Cowie	Finance and Administration Officer
Kylie Astell	Business and Relationship Manager
*Sally Spalding	Media Manager (Feb -June 2022)

*Backfilled Media Manager role while media manager went on leave.

National Committee Convenors

Research, Education and Advocacy Committee (REAC)	Dr John Iser
Advancement Committee	Dr Laura Beaton
Campaigns Committee	Dr Richard Yin
REAC subcommittee - Medical Education	Dr Sonia Chanchlani

State/Territory Chairs

Queensland	Dr Beau Frigault
New South Wales	Dr Kim Loo
Northern Territory	Dr Brooke Ah Shay
South Australia	Dr Doug Shaw
Tasmania	Dr Rou Li
Victoria	Dr Mike Forrester
Western Australia	Dr Emma - Leigh Synott

Special Interest Groups and Working Groups

Agriculture and Diet Air pollution	Dr Michael Schien Dr Ben Ewald and Dr Sujata Allan
Biodiversity	Dr Brooke Ah Shay (Dr Dimity Williams and Dr Marion Carey retired)
Divestment First Nations Solidarity	Dr Helen Redmond Dr Georgia Behrens and Dr Jimmy Ingram
Health and Energy Mental Health	Dr Graeme McLeay Dr Cybele Dey and Dr Anna Seth
Sustainable Healthcare	Dr Eugenie Kayak

Financial statements and treasurers report

The 2021-22 Financial Year has been remarkable for Doctors for the Environment. Despite the substantial impacts of COVID-19, the organisation remains in a strong financial position.

Financially, DEA is largely (approx. 85%) supported by our members through your generous memberships, donations, and conference participation. Consequently, growth of DEA is dependent on the growth of our membership. The direct impacts of the pandemic, including preventing us from convening as colleagues and building our community, have limited my ability to bring people 'into the fold', as I am sure they have yours. As a result, membership growth was limited through Quarter 3 and Quarter 4 of FY22, and it is difficult to predict the magnitude of growth we will see in FY23.

The support provided by you all in the Annual Appeal has enabled DEA to achieve an enormous portion of its works. This year we also saw – as did many community sector organisations (anecdotally, from very large to very small) – reductions in specific giving. I suspect these are related to looming inflationary pressures, some economic uncertainty, and adjustment in budgets to a post-pandemic setting.

Through the expert management of DEA's staff the end year position is approx. \$32,000 better than anticipated, driven by judicious management of expenses, and supported by the Annual Appeal and profits from iDEA21.

Staffing remains our most significant expense – reflecting the specialised, highly professionalised

workforce that enable the organisation to achieve that which it does. In comparison to FY21, there has been minimal capital expenditure, reflecting the maturing of our current systems after significant upgrades in FY21. We have also partnered with the Australian Communities Foundation, which among many other benefits will invest some of DEA's funds on our behalf and afford us with the returns.

We have submitted independently audited financial reports to the Australian Charities and Not-for-profits Commission, which are freely available. Our Board are volunteers and wholly self-funded, and derive no pecuniary interests from the organisation.

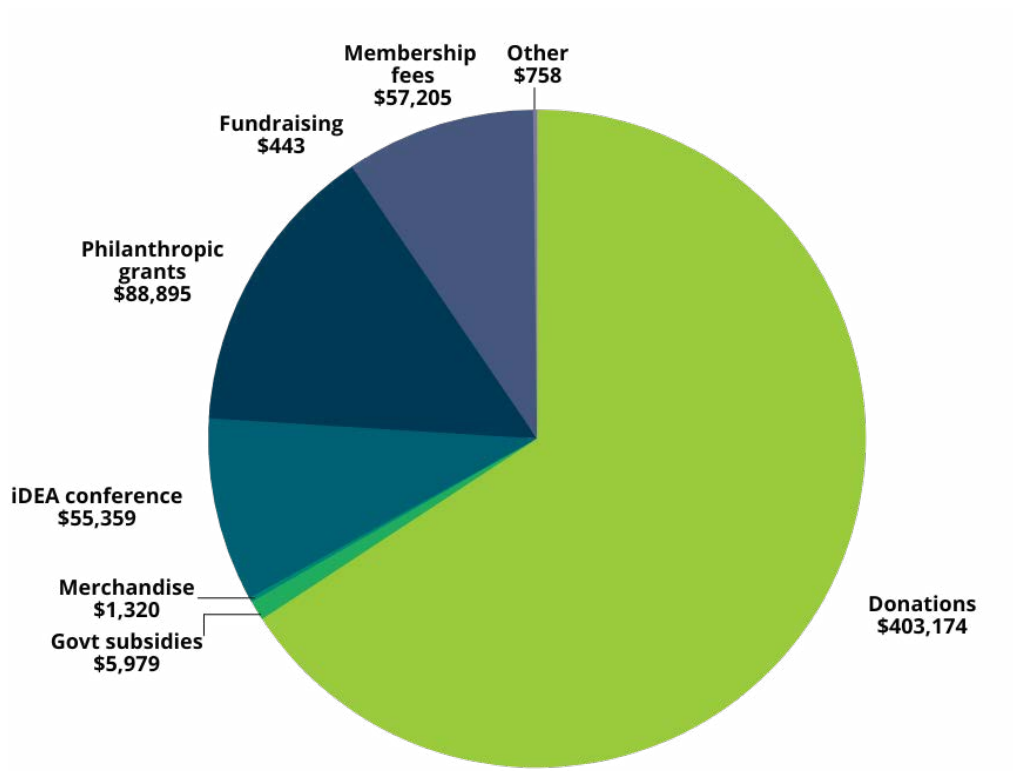
The financial risks to the organisation remain low with adequate capital in reserve. We are fortunate to have predictable income and expenses, and a highly skilled team to manage our operations.

The FY23 budget has deliberately reduced expenditure in line with our post-pandemic income. In the short and medium term I look forward to DEA exploring alternative sources of funding to permit us to grow beyond that which our membership growth permits.

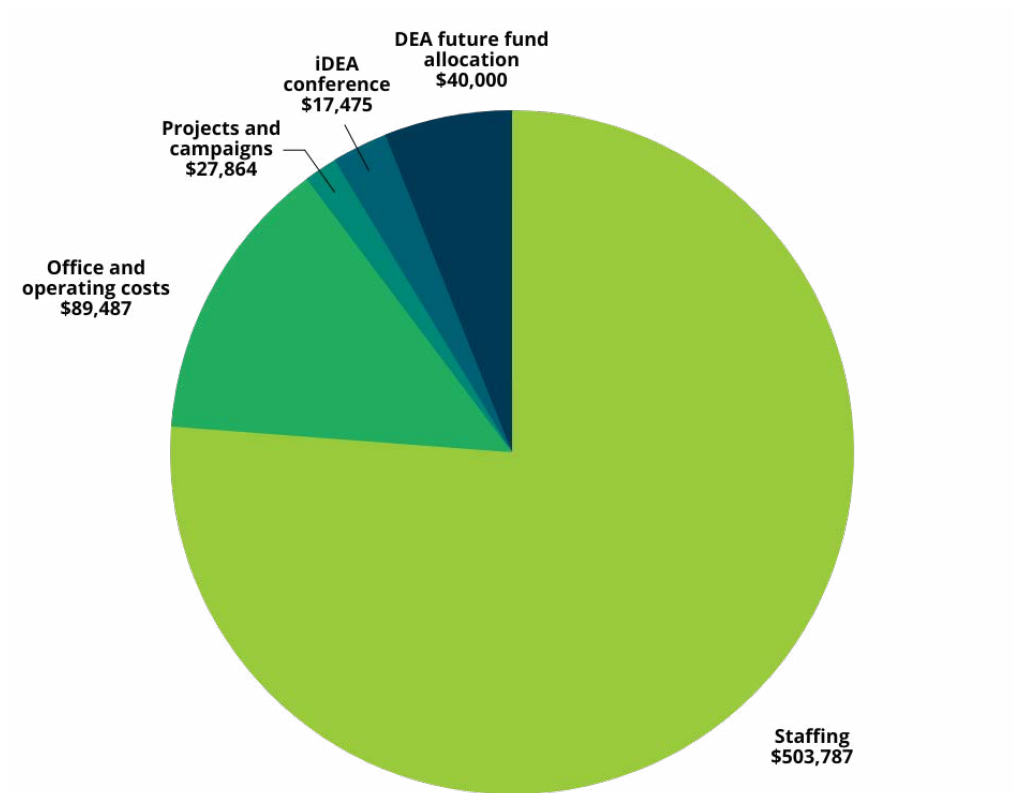
On a personal note, it has been a privilege to be Treasurer for DEA and to have the opportunity to work so closely with our fantastic staff and my sage Board colleagues. I look forward to the coming financial year with great anticipation of what it holds for this remarkable organisation.

Income and expenditure

Income \$613,133



Expenses \$661,138



Statement of Financial Position

Doctors for the Environment Australia (Inc.) As at 30 June 2022

	2022	2021
Income		
Cash Flow Boost	5,979	62,613
DEA Join/Renew Donations	217,301	192,030
DEA Membership	57,205	42,793
Donation	185,874	163,116
iDEA Conference - Income	55,359	-
Grants/Sponsorship	88,895	21,014
Interest Income	218	426
JobKeeper Income	-	40,500
Fundraising	443	1,310
Merchandise Income	1,320	455
Other Income	540	-
Total Income	613,133	524,256
Expenditure		
Employment Costs		
Employee Expenses	217	-
Provision for Employee Entitlements	(15,308)	45,354
Professional Development	3,482	8,715
Salary & Wages	463,365	297,670
Superannuation Contributions	45,901	31,191
Workers Compensation	6,130	1,771
Total Employment Costs	503,787	384,701
Operating Costs		
Office Premises Costs		
Electricity	373	445
Internet	1,356	313
IT Systems and Support	11,431	-
Rent	26,120	26,397
Telephone	1,167	536
Total Office Premises Costs	40,447	27,691
Office Operating Costs		
Accountancy Fees	4,000	4,000
Audit Fees	3,500	2,600
Bank Charges	3,271	6,452
Depreciation	3,070	2,440
Computer/Office Equipment	89	-
Capital Loss Sale of Assets	-	393
Insurance	5,379	4,485
Interest Paid	-	80
Subscriptions	6,717	5,762

Appendices

Committee and SIG members

State Committees

New South Wales

Dr Kim Loo (Chair), Dr Justin Bowra, Dr Marion Carey, Dr Kate Charlesworth, Dr Cybele Dey, Dr Damian Gill, Dr Anthony Harris, Dr Helen Redmond, Dr John Van Der Kallen, Dr Nick Williams

Queensland

Dr Beau Frigault (Chair), Anudhi, Sharada Athuraliya, Dr Marianne Cannon, Dr Emma Gilbert, Dr Annie Gynther, Dr Dave Harley, Dr Annabelle Hughes, Dr Kandice Keogh, Dr David King, Dr Karin Kochmann, Dr Chris Kwan, Dr Aimee Murphy, Dr Pieter Jansen, Dr Fleur Kong, Blanche Lee, Dr Fabiola Martin, Dr Jean Railton, Dr Leonie Roberts, Imogen Smith, Dr Phoebe Tronc, Lana Del Vecchio, Dr Lucy Jane Watt, Dr Michael Williams, Dr Kathryn Woolfield

Northern Territory

Dr Brooke Ah Shay (Chair), Dr Katherine Barraclough, Dr Maddy Deigan, Dr Jimmy Ingram, Dr S.Amel Safi, Dr Rosalie Schultz, Dr Madeleine Shepherd, Dr Jesse Spargo, Dr Kristof Wing

South Australia

Dr Doug Shaw (Chair), David Shearman (DEA Co Founder), Dr Kylie Brown, Dr David Everett, Dr Rob Ferris, Dr Katya Glogovska, Dr Kimberly Humphrey, Dr Hubertus Jersmann, Richard Le, Dr Graeme McLeay, Teresa Pham, Elise Toyer, Gina Wang, Dr Ingo Weber, Dr Kate Wheldrake, Dr Pamela White, Dr Jenny Wilson, Dr Kate Wylie

Tasmania

Rou Li (Chair), Dr Kristine Barnden, Dr Fiona Beer, Dr Kate Bendall, Dr Darren Briggs, Dr Tom Clemens, Dr Elizabeth Haworth, Dr Felicity Rea, Dr Anna Seth, Dr Clare Smith, Dr Jo Topp, Dr Nick Towle, Dr Charlotte Young

Victoria

Dr Mike Forrester (Chair), A/Prof Kenneth Winkel, A/Prof Forbes McGain, Dr Katherine Barraclough, Dr Elizabeth Bashford, Dr Laura Beaton, Gayathri Bimal, Dr Hayden Burch, Dr Nikki Burdett, Dr Sonia Chanchlani,

Emma Charlton, Lauren Chiu, Dr Monika Coha, Dr Jennifer Conway, Dr Genevieve Cowie, Dr Benjamin Dunne, Dr Jenny Huang, Dr John Iser, Dr Eugenie Kayak, Dr Karen Kiang, Dr Jane Maxwell, Dr Fiona McGlade, Dr Kristen Pearson, Dr Catherine Pendrey, Dr Ross Robertson, Gabrielle Hayman, Manasa Sarapalli, Grace Simpson, Dr Annabelle Warren, Mark Zhong

Western Australia

Dr Emma-Leigh Synnott (Chair), Dr George Crisp, Dr Chris Curry, Dr Deborah Field, Dr Sallie Forrest, Dr Richard Yin

National Students Committee

Rose Phan (Chair), Jumpei Takeuchi (Chair-Elect), Seamus Heanue, Victor Ly, Shreya Mago, Mia Malagar, Rachel Niesen, Kara Nimon

National Committees

Research, Education and Advocacy Committee (REAC)

Dr John Iser (Chair), Dr Elizabeth Bashford, Dr Marion Carey, Dr George Crisp, Dr Ben Ewald, Dr Eugenie Kayak, Dr John Van Der Kallen, Dr Kate Wylie

Medical Education REAC sub committee

Dr Sonia Chanchlani (Chair), Dr Laura Beaton, Dr Georgia Brown, Dr Hayden Burch, Dr Tom Clemens, Dr Monika Coha, Dr Cybele Dey, Dr Ben Dunne, Dr Karin English, Dr Kaiya Fergeson, Seamus Heanue, Dr Jenny Huang, Dr Eugenie Kayak, Shreya Mago, Janie Maxwell, Rose Phan, Grace Simpson, Dr Emma-Leigh Synnott, Dr Nick Towle, Dr Annabelle Warren, Benjamin Watson, Dr Ken Winkel, Dr Keren Witcombe, Dr Kate Wylie

Advancement Committee

Dr Laura Beaton (Chair), Dr Sonia Chanchlani, Dr Kristen Pearson, Dr John Van Der Kallen, Dr Pam White

Campaigns Committee

Dr Emma-Leigh Synnott (Chair), Dr Justin Bowra, Dr Helen Redmond, Rose Phan, Dr Nicole Sleeman, Dr Shaun Watson, Dr Kate Wylie, Dr Richard Yin

Special Interest Groups

Agriculture and Diet

Dr Michael Schien (convenor), Dr Kristine Barnden,
Dr Georgia Brown, Dr Marion Carey, Dr Deb Colville,
Dr Kingsley Faulkner, Dr Kathy Garran, Dr Annette Hackett,
Dr Asha Juniper, Dr David King, Dr Kim Loo, Dr Malcolm
Mackay, Dr Fabiola Martin, Dr Graeme McLeay, Dayna
Mrocki, Dr Kristen Pearson, Dr Jean Railton, Dr Emma-Leigh
Synnott, Dr John Van Der Kallen, Dr Mel Venn, Dr Emma
Wawn, Dr Ken Winkel

Air Quality

Dr Sujata Allan (co-convenor), Dr Ben Ewald (co-convenor),
Dr Marion Carey, Dr George Crisp, Dr Kristen Pearson,
Dr Rob Phair, Dr Elizabeth Rose Sheffield, Dr Bob Vickers,
Dr Kathleen Wild, Dr Ken Winkel

Biodiversity

Dr Brooke Ah Shay (convenor), Dr Katherine Barraclough,
Dr Lydia Birch, Dr Darren Briggs, Dr Marion Carey, Dr Deb
Colville, Dr Jennifer Conway, Dr Yi Chao Foong, Dr Ying Gu,
Dr Emily Humphries, Dr Jessica Kneebone, Dr Graeme
McLeay, Dr Liz Rickman, Dr Rosalie Schultz, Dr Dimity
Williams, Dr Kenneth Winkel

Divestment

Dr Helen Redmond (convenor), Dr David Everett, Dr Robert
Ferris, Dr Mike Forrester, Dr Kim Loo, Dr Graeme McLeay,
Dr Carolyn Orr, Dr Ina Schapiro, Dr Douglas Shaw,
Dr John Willoughby

First Nations Solidarity Working Group:

Dr Georgia Behrens (Convenor), Dr James Ingram
(Convenor), Dr Brooke Ah Shay, Dr Katherine Barraclough,
Dr Fiona McGlade, Dr Kara Nimon, Dr Sanjit Paul,
Dr Stefanie Pidcock, Dr Rosalie Schultz,
Dr Emma-Leigh Synnott

Health and Energy

Dr Graeme McLeay (convenor), Dr Elizabeth Bashford,
Dr Marion Carey, Dr George Crisp, Dr John Iser,
Dr Catherine Pye, Dr Helen Redmond, Dr Rosalie Schultz,
Dr John Van Der Kallen, Dr Ingo Weber, Dr Richard Yin

Mental Health

Dr Cybele Dey (co convenor), Dr Anna Seth (co-convenor),
Dr Michelle Hamrosi, Dr Anthony Harris, Dr Lisa Jukes,
Dr Charles Le Feuvre, Dr Kim Loo, Dr Alan Rosen,
Dr Rosalie Schultz, Dr Kate Wylie

Sustainable Healthcare

Dr Eugenie Kayak (convenor), Gabrielle Hayman (secretary),
Dr Angie Bone, Dr Hayden Burch, Dr Sonia Chanchlani,
Dr Kate Charlesworth, Dr Tom Clemens, Dr George Crisp,
Dr Mark de Souza, Dr Ben Dunne, Dr Lyn Fragar, Dr Mike
Forrester, Dr Anthony Hull, Dr Kimberly Humphrey, Dr
Sukhi Hegde, Bianca Kennedy, Dr Karen Kiang, Dr Forbes
McGain, Dr Emma-Leigh Synnott, Dr John Van Der Kallen,
Dr Lucy-Jane Watt, Dr Nick Williams, Dr Richard Yin

Submissions

Victoria's Gas Substitution Roadmap Consultation Paper; July 2021: Dr John Iser

Statutory Review of the Western Australian Health Promotion Foundation Act 2016; July 2021

Proposed Variation of the Code of Practice for Timber Production; July 2021 Dr Katherine Barraclough

Building a climate-resilient Victoria - Health and Human Services; July 2021 Dr Kristen Pearson, Dr Ben Dunne, Dr Catherine Pendrey, Dr Katherine Barraclough

Joint Standing Committee on Treaties Re: Minamata Convention; July 2021: Dr Ben Ewald

Health and Human Services Climate Change Adaptation Action Plan 2022– 2026; Aug 2021: Dr Catherine Pendrey

Major Event Review of Victoria's Regional Forest Agreements; August 2021 Dr Katherine Barraclough

Infrastructure Victoria Towards 2050: Gas infrastructure in a zero emissions economy; Aug 2021: Dr John Iser

National Climate Resilience and Adaptation Strategy; Sep 2021: Dr Catherine Pendrey and Dr Kristen Pearson

Delta Electricity's application for an exemption to the applicable limit on emissions of nitrogen oxide for the Vales Point Power Station; October 2021: Dr Ben Ewald, Dr Sujata Allan

Sustainability Victoria 2030: Decade of Action Plan; Nov 2021: Dr Ken Winkel

Renewable Energy in Victoria; Nov 2021: Dr John Iser

Pre-Budget Submission; Jan 2022: Dr John Iser

NSW Design and Place SEPP, and the Apartment Design Guide; Feb 2022: Dr Ben Ewald

Low Emissions Technology Statement; Feb 2022: Dr Graeme McLeay

Follow-up to the Technology Investment Roadmap 2020; February 2022: Dr John Iser, Dr Graeme McLeay

Santos' proposed Darwin Pipeline Duplication Project; Feb 2022: Dr Brooke Ah Shay

Viva Energy Gas Terminal Inquiry and Advisory Committee; April 2022

Victoria's Interim Emissions Reduction Target for 2035; May 2022: Dr Ben Dunne, Dr John Iser

Parliamentary Hearings

Dr John Iser - Gas Substitution Roadmap Stakeholder Forum following VicDEA submission to Victoria's Gas Substitution Roadmap Consultation (February 14, 2022)

Roundtables

Dr Ben Dunne - DEA at the DELWP roundtable on Victoria's 2035 emissions reduction targets (April 6, 2022)

Presentations

New South Wales

- Dr Georgia Brown and Dr Forbes McGain presented at NSW Green Medics Forum at UNSW; September 30, 2021
- Dr Cybele Dey spoke at Climate and Mental Health Webinar hosted by CAHA; October 7, 2021
- Dr Kim Loo spoke about the air pollution from combustion engines at a Community workshop for EVs; October 17, 2021
- Dr Kim Loo spoke at Climate Change and Solutions Event #enoughtalkat Sydney Opera House; January 18, 2022
- Dr Kim Loo chaired Heat and Health Forum organised by WSROC, Hills Doctors Association, Sydney University; February 17, 2022
- Dr Kate Charlesworth and Dr Cybele Dey represented DEA on Health and Climate Panel organised by Dr Sophie Scamps MP; February 24, 2022
- Dr Kim Loo and Dr Cybele Day presented at the Academy of Child and Adolescent Health annual conference; March 23, 2022
- Dr Kim Loo presented at The Global Health Conference; April 1, 2022
- Dr Lisa Juckes, Dr Cybele Dey, Dr Charles Le Feuvre and Dr Anthony Harris all gave several presentations at the RANZCP22 Congress: workshop on climate change and mental health “what can we do about it?”; May 15-18, 2022

Tasmania

- Dr Helen Scott-Orr and Dr Jeannet Kessels presented on-line to “Vets for Climate Action”; August 4 2021

Victoria

- Dr Ken Winkel was invited to speak to the School of Forestry and Ecosystem Science, Burnley Horticultural Campus, on Nature and Medicine in History; July 2021
- Simon Judkins presented at Austin Grand Round, August 5, 2021
- Dr Eugenie Kayak and Dr Hayden Burch spoke on Healthcare’s carbon footprint - Preventive Health Summit for Monash 2nd year students; August 2021
- Dr Katherine Barraclough outlined Guidelines for Kidney Care Facilities - ANZSN annual meeting on recently developed Environmentally Sustainable Design; August 30, 2021
- Dr Benjamin Dunne presented a podcast for RACS – “Doing your bit for the environment” September 8, 2021
- Dr Katherine Barraclough spoke on doctors as advocates at RACP “MBA In Half a Day”; September 11, 2021
- Dr Eugenie Kayak contributed to On-line forum “Climate Change and Sustainability: Leadership and Action from Australian Doctors”; Sep 14, 2021
- Grace Simpson and Dr Ben Watson facilitated at a Sustainability workshop at Monash Rural Medical School; October 6, 2021
- Dr Catherine Pendrey spoke to the RACP Climate Change Research Report Launch; Nov 30, 2021
- Assoc Professor Forbes McGain presented at the Sustainable Healthcare forum - NHMRC Partnership Centre for Health System Sustainability; December 2, 2021
- Dr Catherine Pendrey hosted an RACGP Rural Health Webinar Series event on Climate Change and Rural Health; Dec 2 2021
- Dr Mike Forrester, Dr Karen Kiang and Dr Benjamin Dunne advocated for climate action in your hospital – Children’s Healthcare Australasia; March 24, 2022
- Assoc Professor Forbes McGain spoke at UMelb MD4 Evidence Based Practice on Junior Doctors Practising High Quality, Low Carbon Medicine; April 14, 2022
- Dr Monika Cocha session on Heatwaves and Health for the Water Well Project
- Assoc Professor Ken Winkel and Assoc Professor Forbes McGain organised and spoke at a public workshop during Melbourne Knowledge Week “Do you want carbon with that, Doc?”; May 12, 2022
- Dr Catherine Pendrey presented to Australian College of Dermatologists Climate Change and Skin Health Virtual Summit; May 28, 2022
- Dr Benjamin Dunne spoke on RACS Sustainability ASC; May 2022 Annual Scientific Congress
- Dr Karen Kiang and Dr Mike Forrester involved in RCH Senior medical staff masterclass; May 31, 2022
- Dr Karen Kiang, Dr Ben Dunne, Dr Mike Forrester and Dr Lisa Rasmussen presented at a DEA (/DEA UniMelb) session on sustainable healthcare at MDSC; June 28 2022 University of Melbourne MD Student Conference
- Gaya Bimal and Eva Goldstraw hosted webinar on Nutrition and planetary health; October 2021

Papers

The following papers and peer-reviewed articles were authored by DEA members:

Renewable energy use in Australian public hospitals; MJA July 2021: Dr Hayden Burch, Dr Forbes McGain

Rising Temperatures and Suicidal Behaviour; ANZ Journal of Psychiatry August 15 2021: Dr Cybele Dey

Turn off the gas and embrace all-electric; VicDoc Spring 2021: Dr Hayden Burch

Net zero healthcare: a call for clinician action; BMJ September 2021: Dr Forbes McGain

Lessons from senior medical leaders; InSight October 2021: co-author Dr Katherine Barraclough

Australian health sector leadership and roadmap for healthcare decarbonisation to net zero emissions; The Journal of Climate Change and Health October 2021: Dr Eugenie Kayak, Dr Hayden Burch

Journal of Paediatrics & Child Health dedicated to planetary health; November 2021: co-editor
Dr Karen Kiang

Surveying the changing climate of Northern Territory medical workforce retention; Australian Journal of Rural Health March 1 2022: Dr Catherine Pendrey

Hope is not a method – we must act now to decarbonise the health sector; Deakin University Institute for Health Transformation April 2022: Dr Mike Forrester

Media

Dr Eugenie Kayak, Mirage News, 1.7.21 <https://www.miragenews.com/national-conference-examines-how-medi-cos-talk-588816/>

Dr Richard Yin, Dr Emma Leigh Synnott, Dr George Crisp, Medical Forum, 1.7.21 https://mforum.com.au/the-plan-et-needs-healing-hands/?amp&fbclid=IwAR07U7B-FESr-vIF2RSf74ncRSDqCEmJjLzxGZjJjhqFk_wVvWOOB0n2Q

Dr Beau Frigault, Canberra Times, 6.7.21 <https://www.canberratimes.com.au/story/7311531/deadly-impacts-of-extreme-heat-waves/?cs=14246>

Dr Kim Loo, Medical Mums podcast, 3.7.21 https://open.spotify.com/episode/0sx6foqPzEc9LGKneOFIC5?si=HUL74QYcT-Tak-tBQQQ1H9w&context=spotify%3Ashow%3A5SEyfuqxqxBNzEEv8XTZHh&dl_branch=1&nd=1

Dr David Shearman, Independent Australia, 15.7.21 <https://independentaustralia.net/politics/politics-display/the-coalition-is-sinking-in-the-uncharted-waters-of-the-murray-darling.15292>

Dr David Shearman, Pearls and Irritations blog, 21.7.21 <https://johnmenadue.com/the-eu-tariff-plan-is-good-news-for-australias-place-in-the-world/>

Dr David Shearman, The Hill, 28.7.21 <https://thehill.com/opinion/energy-environment/565176-how-the-us-could-help-australia-develop-climate-action/>

Dr John Van Der Kallen, Croakey, 9.8.21 <https://www.croakey.org/running-not-walking-towards-planetary-scale-disaster-the-ipccs-latest-state-of-the-climate-report>

Dr Beau Frigault, Croakey, 10.8.21 <https://www.croakey.org/ipcc-report-a-clarion-call-to-climate-action-for-australia-doctors-say/>

Refers to DEA generally, Croakey, 11.8.21 <https://www.croakey.org/its-code-red-for-humanity-how-can-the-health-sector-respond/>

Dr Marianne Cannon, Croakey, 11.8.21 <https://www.croakey.org/on-the-climate-frontlines-the-emergency-responders-are-cannon-fodder/>

Refers to DEA generally, The Limbic, 12.8.21 <https://thelimbic.com/power-hungry-hospitals-need-to-move-faster-to-renewable-energy/>

Dr Georgia Brown, Open Forum, 12.8.21 <https://www.openforum.com.au/the-ipcc-report-amidst-covid-19-highlights-why-a-dual-health-crisis-response-matters/>

Dr Robert Llewellyn-Jones, Podcast 2nurFM, 19.8.21 <https://www.2nurfm.com.au/news/psychological-effects-of-climate-change/>

Dr John Van Der Kallen, Newcastle Herald, 13.8.21 <https://www.newcastleherald.com.au/story/7383369/climate-report-a-wake-up-call-drs-say>

Dr Kimberly Humphrey and Dr Emma Leigh Synnott, Insight, 16.8.21 <https://insightplus.mja.com.au/2021/30/ipcc-report-chance-for-doctors-to-take-climate-action/>

Dr Brooke Ah Shay, Medical Republic, 17.8.21 <https://medicalrepublic.com.au/hurt-the-land-hurt-the-people/51050>

Dr Sarah Mollard, Camden Haven Courier, 17.8.21 <https://www.camdencourier.com.au/story/7389391/webinar-explores-eating-for-the-planet-and-reducing-climate-footprint/>

Dr David Shearman, The Hill, 18.8.21 <https://thehill.com/opinion/energy-environment/568417-australia-needs-help-from-the-us-to-defuse-the-gas-bomb/>

Drs Eugenie Kayak and Georgia Behrens, Croakey, 25.8.21 <https://www.croakey.org/if-the-planet-was-a-patient-it-would-be-morally-wrong-not-to-treat-her-urgently/>

Dr David Shearman and Joseph Wayne Smith, Pearls and Irritations, 6.9.21 <https://johnmenadue.com/the-climate-apocalypse-can-a-collapse-of-global-civilisation-be-avoided/>

General DEA mention, ABC News, 6.9.21 <https://www.abc.net.au/news/2021-09-06/call-for-electric-cars-to-be-exempt-from-stamp-duty-in-sa/100437572>

Drs Magda Simonis and Kimberly Humphrey, Insight, 6.9.21 <https://insightplus.mja.com.au/2021/33/climate-change-impacts-women-more-than-men/>

Drs Magda Simonis and Kimberly Humphrey, Neos Kosmos Newspaper and online, 7.9.21 <https://neoskosmos.com/en/2021/09/06/dialogue/opinion/climate-change-will-place-additional-burdens-on-women-and-children/>

Dr David Shearman, The Hill, 13.9.21 <https://thehill.com/opinion/energy-environment/571958-australias-duty-to-the-world-stop-mining-coal/>

Daily Telegraph, Herald Sun, The Australian, 'Climate change is killing Aussies', Dr Eugenie Kayak and Dr John Van Der Kallen, Behind pay wall, 14.9.21

DEA general mention, The Conversation, 14.9.21 <https://theconversation.com/doctors-and-farmers-turn-up-heat-on-morrison-ahead-of-glasgow-167891>

DEA general mention, Croakey, 15.9.21 <https://www.croakey.org/global-rallying-call-for-child-health-professionals-to-act-on-climate-as-pressure-on-australian-government-intensifies/>

DEA general mention, Canberra Times, 15.9.21 <https://www.canberratimes.com.au/story/7430512/medical-groups-urge-pm-to-protect-australians-health-with-ambitious-climate-targets/>

DEA general mention, The Guardian, 15.9.21 <https://www.theguardian.com/australia-news/2021/sep/15/agricultural-sector-could-be-net-zero-by-2040-if-australia-boosts-efforts-report-suggests>

DEA general mention, Korea Herald, 15.9.21 http://www.koreaherald.com/global_insite/view.php?ud=x846c7r

Drs Kim Loo, Katherine Barraclough and Kimberly Humphrey, Women's Agenda, 15.9.21 <https://womensagenda.com.au/climate/we-need-the-political-will-for-a-liveable-world-the-urgent-plea-from-doctors-to-scott-morrison-on-health-impacts-of-climate-change/>

DEA general mention, NewsGP, 15.9.21 <https://www1.racgp.org.au/newsgp/clinical/medical-colleges-urge-prime-minister-to-act-on-cli>

Dr John Van Der Kallen, Medical Republic, 17.9.21 <https://medicalrepublic.com.au/earth-is-running-a-fever-its-time-to-act/54103>

Dr Cybele Day, radio interview climate change and mental health, Barometre Adelaide, no link, 17.9.21

Dr Ben Ewald, ABC radio, Newcastle, air quality guidelines, no link, 24.9.21

Dr Graeme McLeay, Independent Australia, 26.9.21 <https://independentaustralia.net/environment/environment-display/us-china-talk-could-torpedo-climate-conference,15558>

Dr David Shearman, The Hill, 28.9.21 <https://thehill.com/opinion/energy-environment/574349-is-australias-nuclear-submarine-deal-a-distraction-from/>

Dr David Shearman, Independent Australia, 30.9.21 <https://independentaustralia.net/environment/environment-display/australias-approval-of-gas-projects-lighting-climate-change-fires-,15573>

Dr Lai Heng Foong, Medical Progress, 12.10.21 <https://themedicalprogress.com/2021/10/12/how-can-healthcare-professionals-help-address-climate-change/>

Dr Kim Loo, News.com, no link, 13.10.21

Dr Forbes McGain, ABC 13.10.21 <https://www.abc.net.au/news/2021-10-13/healthcare-waste-covid-plastic-recycling-reusing-hospitals/100533552>

Dr Lisa Juckes, The Examiner, 15.10.21 <https://www.examiner.com.au/story/7468086/how-to-help-young-people-address-climate-anxiety/?cs=97>

Dr Cybele Dey, Sydney Morning Herald, 17.10.21 <https://www.smh.com.au/politics/federal/hotter-temperatures-and-extreme-weather-linked-to-mental-distress-suicide-20211015-p590cc.html>

Dr Kate Charlesworth, Insight, 18.10.21 <https://insightplus.mja.com.au/2021/39/covid-19-is-urgent-climate-is-important/>

Dr David Shearman, Pearls and Irritations blog, 20.10.21 <https://johnmenadue.com/one-minute-to-midnight-only-fresh-thinking-can-tackle-climate-and-biodiversity-crises/>

Dr Chris Curry, Public radio Perth, 21.10.21 <https://rtrfm.com.au/story/uwa-set-to-host-the-climate-solutions-event/>

Dr David Shearman, The Hill, 22.10.21 <https://thehill.com/opinion/energy-environment/578078-to-sustain-humanity-cop26-must-lead-on-both-climate-and/?rl=1>

Dr Richard Yin, The Guardian, 24.10.21 https://www.theguardian.com/environment/2021/oct/24/poor-ev-take-up-to-cost-australias-health-system-1tn-by-2050-modelling-shows?CMP=Share_iOSApp_Other

Dr Katherine Barraclough, Insight, 25.10.21 <https://insightplus.mja.com.au/2021/40/lessons-from-senior-medical-leaders/>

Dr Richard Yin, The Driven, 27.10.21 <https://thedriven.io/2021/10/27/mind-if-i-smoke-kicking-the-petrol-habit-is-no-idling-matter/>

DEA21, Croakey, 27.10.21 <https://www.croakey.org/on-planet-health-and-hope-what-a-roller-coaster-of-a-ride/>

Dr Graeme McLeay, Canberra Times, 1.11.21 <https://www.canberratimes.com.au/story/7489330/mad-cow-disease-has-gone-to-glasgow/?cs=14246>

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ORGANISATIONS

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Vale Jeremy Hobbs

We were extremely saddened to say goodbye to our friend and colleague Jeremy Hobbs on 14 July 2022.

Jeremy conducted DEA's organisational review in 2018, which led to changes that have enabled us to work more effectively and strategically. He facilitated the development of DEA's first Strategic Framework and continued to assist us with advice and support until his death.

Jeremy had had a long career in internal development and human rights, having been Executive Director of Oxfam International and Oxfam Australia. A passionate advocate for social justice, he was deeply committed to Aboriginal and Torres Strait Islander rights and race issues in Australia, and to the rights of the people of East Timor.

Jeremy was incredibly generous with his time and experience and is sorely missed. We owe him a deep debt of gratitude.

