

# Regenerating Futures - Faculty Research Group

## Newsletter 2026



RF Newsletter #2 - Tuesday 3rd March 2026

*Dear Regenerating Futures Colleagues!*

Welcome to newsletter 2 - we have some key events to showcase and some initiatives to share. Welcome also to the start of trimester 1 - here we go!

The RF is set for a great year - although it may be our final year... the research ecology is set to be reshaped again this year - ready for 2027. The RF has some decisions to make about how we manage our research interest to align, coalesce, collaborate, and produce. If you are interested in being involved in these discussions, please let us know [regeneratingfutures@deakin.edu.au](mailto:regeneratingfutures@deakin.edu.au).

In 2026, while we will continue to host our key strategies, we also are igniting the Incubator. This is a strategy that enables those of us who are ARC interested to map a pathway to success (read more below). In 2026, we will also focus on doing research. The RF has three key research projects that have been funded and you are welcome to join. We will introduce these more formally in our next newsletter.

Thanks to RF colleagues Kavita Peterson and Bronwyn Sutton who are representing us at the Student Led Conference this Thursday 5th March! There is a speed dating style opportunity to explore the research ecology at lunchtime and Kav and Bron have offered to represent the RF! We hope all attending have a great day. So, we recommend the newsy newsletter to you and hope that you enjoy reading it and find something for you.

Best wishes,  
*Peta and Jo*

### RF Calendar of Events for 2026

- On Country Days (a single day where we value being together on Country - learning and living in community - all welcome)
  - 1 Willum Warrain [www.willumwarrain.org.au/](http://www.willumwarrain.org.au/) - Thursday 16th April 10.45am - 3pm
  - 2 With RF Retreat/Advance in Geelong city - Monday 1st June 10am - 3pm
  - 3 Melbourne event or cultural institution - Wednesday 16th September 10am - 3pm
  - 4 Sherbrook Forest - Monday 23rd November 10am - 3pm
- Futures Forum (all welcome)
  - ~~1 Ethan Gordon - RF Visiting Scholar - "Faces of Regeneration" - Thursday 26th February @ 11am~~
  - 2 Amanda Glob Nielsen - RF Visiting Scholar - "Role-playing with food in a posthuman perspective" - Tuesday 10th March @ 2pm
  - 3 Kate Hunter "Over Hearing: Attention as a dramaturgical practice" Wednesday 18th March @ 10am
  - 4 Franziska Massenboeck - RF Visiting Scholar - "More Than Just Dirt - Exploring Soil Health through Socio-Scientific Modelling in Teacher Education" Tuesday 24th March @ 2pm
- Regenerators (4 yearly - all welcome)
  - 1 The Savvy Academic (social media, conversation, online researcher profiles, scopus, 5 year plan, Deakin strategies (funding, ASP) - Tuesday 24th March - 12noon (1 hrs) Zoom link [here](#) - Meeting ID 863 6015 0784, Password 15362170
  - 2 Slow academic - Self preservation and mindfulness - July
  - 3 Regenerative Leadership - October

- 4 we will responsively frame the final Regenerator as we see how the year unfolds
- Strategiser (4 yearly - alternate with Regenerator - all welcome)
  - 1 Developing my 5 year research program (and narrative) - April
  - 2 Actioning the 1 year plan (ARC dates, Faculty funding, other funding sources) - May
  - 3 Building research teams, international connections, and track record (ROPES) - September
  - 4 Industry partnerships and relationship - November
- **Decolonising Knowledges Reading Group Zoom**
  - **Friday 27 March 2026 1:00-2:00pm**
  - Friday 24 April 2026 1:00-2:00pm
  - Friday 22 May 2026 1:00-2:00pm
  - Friday 26 June 2026 1:00-2:00pm
  - Friday 31 July 2026 1:00-2:00pm
  - Friday 28 August 2026 1:00-2:00pm
  - Friday 18 September 2026 1:00-2:00pm
  - Friday 30 October 2026 1:00-2:00pm
  - Friday 27 November 2026 1:00-2:00pm
- **Incubator - Initial meeting Tuesday 17th March @ 12noon (1 hr)**
- Retreat / Advance - Monday 1st to Wednesday 3rd June - Waterfront Geelong with On Country #2 and graduation (need convincing... <https://patthomson.net/2026/02/07/why-go-on-a-writing-retreat/>)
- SoE Research Conference - Wednesday 24th and Thursday 25th June - Waurin Ponds Estate
- Graduate Researcher
  - Welcome to Visiting Scholars Amanda and Franziska - Tuesday 10th March @ 2pm
  - "Postcards" @ Deakin Downtown (more details to come) - June
- Showcase projects - may host events throughout the year
  - CRU project
  - Artefacts of the Futures
  - Time to Act
- Events (opportunistically)

### **Welcome Franziska Massenboeck and Amanda Glob Nielsen as RF Visiting Scholars**

Regenerating Futures will be hosting a welcome event encouraging you to meet Amanda and Franziska on the 10th February (2 - 4pm). We will invite Graduate Students and their supervisors to an afternoon tea at Burwood campus - Drama Studio lounge (E2.013). This will involve the Futures Forum Amanda is offering, some updates about Deakin Graduate programs and the value of international travel, as well as a catered gathering. See calendar invite.

### **Incubator invitation**

The **Incubator** is a new initiative of the RF (for Deakin RF members only) where we support those who are ready to establish an active research program. You will self-nominate for this ongoing program and receive bespoke responsive support to design your own research program plan - with the full support of the leaders, team, and Deakin supports.

- **Please send an email "signing-up" by 3rd March - [regeneratingfutures@deakin.edu.au](mailto:regeneratingfutures@deakin.edu.au)**
- The Incubator strategy includes:
  - Initial meeting - confirm commitment and set goals - mid March
  - Attend the Regenerator and Strategiser sessions (8 across year)
  - Participate in targeted mentoring and tailored support - co-designed and flexibly delivered
  - Participate in relevant programs focussed on specific funding application rounds (eg: ARC - DP, LP, DECRA)
  - Set goals (March) and report on success at the end of the year

Our first meeting is the 17th March @ noon for 1 hour. Those who have registered will be sent the Zoom link via calendar invite.

### **Co-lab for Graduate Researcher Colleagues**

Co-Lab is a weekly catch up for PhD or Masters by research students. Affiliated with the Regenerating Futures (RF) research group at Deakin University. Attendees may discuss research progress, events, or ideas they are

presently working on. It is an informal space for HDR (higher degree by research) students to discuss and collaborate on ideas relating to their research or publications. This space is open to all PhD and Masters by research students enrolled at Deakin University (or not - just attend and Austin can help you join RF as an allied member). It may have an in-person study group component attended by learners/researchers from other campuses including post-doctorate candidates. This is an anti/multi-disciplinary group with converging de-colonial/anti-colonial aims. So far members have identified as queer/gender non-conforming and neurodiverse. The space is open and generative - members may seek to run a specific lesson or reading focused session. It is primarily facilitated by PhD student Austin McBride (education), but may run in their absence by other members.

Please invite any PhD or Masters by research candidates (Deakin or beyond), you feel will benefit from being included in this space. Co-Lab is not gate-kept, eligibility is based on interest, need for scholarly community and joining RF or as an allied member. To join or for more information, please email Austin @ [s219060526@deakin.edu.au](mailto:s219060526@deakin.edu.au)

### **Decolonising Knowledges Reading Group**

We are delighted to announce that the meetings of our very successful Decolonising Knowledges reading group will recommence this month. The group meets online once per month mostly last Friday of the month 1:00-2:00pm (Lunch bag) from March to November, and all RF members are welcome to join.

See your calendar for the Zoom link [here](#) (meeting ID 884 8815 5038, Password 79870146).

The dates for 2026 are:

- Friday 27 March 2026 1:00-2:00pm

**First reading:** Sharon Stein - Composting the University Volume 1, Issue 1 (2025), pp. 20-38 *Journal of Global Higher Education*. [Access here](#)

- Friday 24 April 2026 1:00-2:00pm
- Friday 22 May 2026 1:00-2:00pm
- Friday 26 June 2026 1:00-2:00pm
- Friday 31 July 2026 1:00-2:00pm
- Friday 28 August 2026 1:00-2:00pm
- Friday 18 September 2026 1:00-2:00pm
- Friday 30 October 2026 1:00-2:00pm
- Friday 27 November 2026 1:00-2:00pm

Reading group leaders Llewellyn Wishart and Genée Marks are putting out a call to RF membership and past participants of the reading group for suggested articles, readings and creative works for 2026. Please email Llewellyn and Genée your suggestions.

### **On Country Day #1 Willum Warrain - Thursday 16th April 10.45am-3.00pm**

We are excited to announce our first On Country day for 2026. This time we'll be walking together on Bunurong Boon Wurrung Country and visiting Willum Warrain in Hastings on the Mornington Peninsula. [Willum Warrain](#) is a 100% Aboriginal community-owned bush nursery specialising in local indigenous plants from the Mornington Peninsula. While there we'll follow the Koorie Plant Trail and visit the Pun Pun (billabong) area. We'll be decolonising our practices through yarning with Uncle Peter Aldenhoven, sharing lunch, regenerating vegetation and ourselves by getting our hands into some Indigenous plant propagation, and maybe taking home some plants to grow the love.



Willum Warrain ('home by the sea') Aboriginal Association is the voice of Aboriginal and Torres Strait Islander people on the Mornington Peninsula. It is a gathering place where Aboriginal people come together to realise community aspirations and forge shared identity. Managed by an Aboriginal board, Willum Warrain provides information and referral services, charitable support, health and wellbeing programs, art and culture programs, and links between the Aboriginal community and the broader local community. You can watch Gardening Australia's video "Home by the sea" about Willum Warrain [here](#).

RSVP required for this On Country day - limited places. Save the date. *Invitation coming soon.*

**Futures Forum #1 - Dr. Ethan Gordon “Faces of Regeneration” - see recording [here](#)**

In this Futures Forum, Ethan unpacked his journey with the concept of regeneration and how his understanding of it has changed from working with Australian farmers, US ranchers, and on the IPBES Transformative Change Assessment. He explained the values underpinning regenerative agricultural systems. If you missed Ethan’s presentation last week, you can listen to the recording on the link above.

**Futures Forum #2: Amanda Glob Nielsen - RF Visiting Scholar - “Role-playing with food in a posthuman perspective” - Tuesday 10th March @ 2pm**

Grounded in posthumanism and ecofeminism, I would like to discuss how roleplay as a method for perspective shifts, creativity, and ecological reflection can help develop eco-literacy in education. After testing a sci-fi RPG in Danish schools, I reconsidered how imagination, embodiment, and eco-literacy are supported within current systems. I argue that eco-literacy is not memorizing facts, but cultivating creative, democratic, and emotionally engaged conversations and practices. My research now turns to food as an overlooked yet powerful actor. What can an apple, a pig, or water teach us about interdependence, Indigenous knowledge, and living and dying well together in a more-than-human world?



Amanda Glob Nielsen completed her teacher education at Denmark’s first women’s teacher training college. There, she developed a sustained interest in critical pedagogy and anti-racist education. She later pursued graduate studies in didactics. Her master’s thesis examined sustainability education and included an analysis of teaching materials across Denmark’s major educational resource databases. She subsequently worked as a research assistant on a project exploring education in regenerative mussel farming, conducting qualitative interviews with environmental educators. She later authored a comprehensive Scandinavian review on Education for Sustainable Development (ESD). She is currently a PhD fellow at the University of Southern Denmark, researching role-play as a part of developing eco-literacy with pupils in the danish upper primary school.

Zoom link - see [here](#), Meeting ID: 819 6829 0330, Password: 80465781

**Futures Forum #3 - Dr. Kate Hunter “Over Hearing: Attention as a dramaturgical practice” - Wednesday 18th March @ 2pm**

This presentation outlines Kate's 2025 ASP research project, which investigates attention as a dramaturgical practice. Through field recording, graphic scoring, and dialogic inquiry with scholars and theatre-makers across diverse landscapes - from the desert country of the Western Wimmera to the Rocky Mountains of Colorado - the project examines how acts of attending generate new knowledge about place, embodiment, and theatrical presence. Kate presents her fieldwork findings to propose an expanded dramaturgical framework that emphasises felt experience as a profound way of making meaning.



**Kate Hunter** is an interdisciplinary artist working across performance, improvisation, painting, and sound. Originally trained in theatre, she creates miniature immersive installations and site-specific works that explore listening as both dramaturgical device and research method. Her practice employs painted surfaces, hydrophone recordings, and audio composition to examine relationships between human and more-than-human worlds. She is currently Senior Lecturer in Art and Performance at Deakin University, Naarm/Melbourne, Australia.

Zoom link - see [here](#), Meeting ID: 893 9401 8780, Password: 17712555

**Futures Forum #4: Franziska Massenboeck - RF Visiting Scholar “More Than Just Dirt - Exploring Soil Health through Socio-Scientific Modelling in Teacher Education” - Tuesday 24th March @ 2pm**

My doctoral project investigates how soil health can be meaningfully integrated into science education within the framework of One Health Education. Conceptualizing soil health as a socio-scientific issue, the study explores how pre-service teachers and in-service teachers engage with complex scientific, societal, and environmental dimensions through socio-scientific modelling. Using a design-based research approach, the project combines exploratory qualitative studies with iterative development and testing of instructional materials in teacher education contexts. The overarching aim is to support the development of content knowledge and pedagogical content knowledge while fostering systems thinking and the ability to connect soil health topics to learners’ everyday lives.



Franziska Massenboeck holds a degree in Environmental Education from the University College for Agricultural and Environmental Education in Vienna, Austria. In recent years, she has worked as a project coordinator for the Teaching Clinic, an action research initiative with in-service teachers, and the One Health Teaching Clinic, which collaborates with subject matter experts to bring pressing One Health topics into schools. She co-organised the Vienna Mushroom Festival, attracting over 5,000 visitors and sparking her research interest in soil health and its interconnections with human and environmental wellbeing. To broaden her perspectives on science education, she came to Melbourne to engage with different educational cultures and research traditions for teaching complex socio-scientific issues.

Zoom link - see [here](#), Meeting ID: 865 1661 0520, Password: 73904963

### ***Deakin Research Information***

#### **Research Grant News...**

In a newsletter from the Associate Dean Research recently she indicated that late NOIS (notice of intent to submit) will not be accepted going forward.... Please check the programs you are interested in and get your NOIS in! See dates [here](#). Strategies to manage the NOIS and aspects of research grants will be discussed in our Regenerator “the Savvy Academic” 24th March @ noon and the Strategiser - first of 4 online events “Developing my 5 year plan” is coming up in April.

Further information at [Faculty Support Schemes](#). Examples of funding support schemes include:

- [Faculty Conference Support Scheme](#)
- [Research Project Development Scheme](#)

Funding schemes will be updated at the start of April, 2026.

**Deakin Scholarships** Domestic 13<sup>th</sup> March 2026 See [here](#)

**GR policy changes** [Policy Change Briefing Webinar.pptx](#)

**Candidate information** [Progress Review Milestones](#) [Candidate Guideline.pdf](#)

#### **Our Research Integrity Colleagues**

RF members Glenn Auld and Toija Cinque are part of our Faculty Research Integrity Team. They have recently constructed this profile of peer review and authorship... and share insights in the image below and [here](#).

# Research Integrity: Peer Review

Ever had a Review 2, whose comments just didn't make sense?

Please see [this guide](#) that was from a presentation to the Faculty Research Seminar series in 2025.

Researchers should know the criteria for being a responsible reviewer including when not to review and the responsibilities when you do.

We don't want to be creating any *reviewer 2s* at Deakin who make it difficult to negotiate.

Please share this information with your research teams.

Faculty Research Integrity Advisors: Glenn Auld, [Toija Cinque](#) and Cai Wilkinson

## **Shared with us to share with you...**

Please forward links and notes of upcoming events, calls for conferences and papers, and other possibilities such as great articles you have read or recent reports. [regeneratingfutures@deakin.edu.au](mailto:regeneratingfutures@deakin.edu.au)

## **The Striking Voices Project - an invitation**

The [Striking Voices project](#) team members are excited to invite you to join them for a free interactive workshop, sharing and creating stories of climate justice, activism, young people and education (including petro-pedagogies and climate justice education).

We'll be having two in-person workshops: one in [Naarm \(Melbourne\) on Sat 7th March 2026 11am-2pm](#), and another in [Warrang \(Sydney\) on Sat 28th March 2026 11am-2pm](#). The in-person workshops will include a cute mix of activities, with the freedom to roam between interactive stations: from zine-making, to collage-making, to weaving (facilitated by Pacific Climate Warriors) to playing a conversation card game developed by the Striking Voices team and designed by [@jessharwoodart](#). We'll also take a break to share a delicious lunch. We'll also be having an [online workshop on Mon 27th April 2026, 6:30-8:00pm](#). The online workshop will include opportunities to hear from the Striking Voices team about project activities (e.g. zine- and collage-making), findings and outputs (including a conversation card game developed by the Striking Voices team and designed by [@jessharwoodart](#)). There will also be opportunities for discussion in breakout groups.

Register now to be part of a workshop - we look forward to seeing you there! In solidarity, Eve Mayes, Natasha Abhayawickrama, Sophie Chiew, Netta Maiava & Dani Villafañá

## **RF Allied Member - Michael Chew invites us all**

A community art project is celebrating the stories, spaces and creative spirit of Castlemaine and beyond. Mapping Our Futures is the brainchild of self-confessed 'map nerd' Michael Chew, a local designer and social ecologist.

Michael worked alongside four other talented local artists, Wendy Hopkins, Sarah Taylor, Kirsten Moegerlein and Eunice Rigo, to bring the project to life. The project officially launched on the weekend and will be open to the community for the next four weeks. Read more [here](#)

**Decadal Plan for Australian Education Research 2025-2036** has been [published](#).

**The consultation period will be open from 1 December 2025 to 1 March 2026.**

We would encourage you to contribute by sharing your insights on the role of educational research in delivering better outcomes for all learners and supporting Australia's education workforce.

This Decadal Plan will be the first of its kind for Australian education research and is being developed in partnership with the Academy, AARE, Australian Council of Deans of Education (ACDE), Australian Council for Education Research (ACER), Early Childhood Australia, Australian Teacher Education Association (ATEA),

Australian Education Union (AEU), Australian Research Council (ARC) Centre of Excellence for the Digital Child, Deakin University Centre for Research for Educational Impact (REDI), and Griffith Institute for Education Research.

### Building Education Researchers' Capacity



You are invited to join us for the first workshop in a series of four, developed by cADRE, the Community of Associate Deans Research in Education, a network of the Australian Council of Deans of Education. This online workshop series will focus on building Education researchers' capacity to conduct quality peer reviews of nationally competitive grants.

- Workshop 1 March 12, 1.00-2.00pm
- Workshop 2 April 16, 12:00-1:00pm
- Workshop 3 June 4, 12:00-1:00pm
- Workshop 4 July 16, 12:00-1:00pm

Workshop 1 will provide an overview of current and future Australian Research Council (ARC) funding schemes relevant to the Field of Research 39: Education. Representatives of the ARC will provide an overview of schemes and assessment processes, outline key assessor guidelines as well as features of quality assessor feedback. They will be joined by former members of the ARC College of Experts and experienced research administrators in discussing what assessors need to know to engage in constructive and sector promoting forms of feedback in the context of a national review of major category grant funding programs.

Please share this invitation among your networks. Zoom link [here](#) - Password: 024746

### Linguists and First Nations community work together to 'awaken' Bunurong language - ABC article

Bunurong elders, linguists and community members are working to revive a language that has not been spoken fluently for more than a century. Using 19th-century records, they are reconstructing Bunurong word by word and returning it to community use. What's next? The dictionary has been launched online, and community members are now beginning to speak their tongue on Country again.

Thanks to RF member Glenn Auld for sharing. See more [here](#)

### Climate Council Resources!

Another fire. Another wave of misinformation that's designed to sow doubt on a simple fact: climate pollution is fuelling more dangerous bushfires.

If you've ever come across a myth about bushfires and climate change, and felt unsure how to respond, this [new guide](#) is for you.

We've created a practical conversation guide '[How to Talk About Climate Change and Bushfire Risk](#)' to help people explain clearly and confidently how climate change is driving more explosive fire conditions.

It includes a cheat sheet that debunks common myths about climate change and bushfires, so we can help everyone sort fact from fiction.

Whats inside

- A practical conversation guide to help you talk about climate change and bushfire risk with confidence
- Tips for starting with shared values – like protecting our families, homes and the places we love
- Simple facts you can rely on
- A bushfire myth-busting cheat sheet that refutes common myths and explains what the science actually shows
- Why Conversations matter
- Worsening bushfires are already reshaping how Australians experience summer. Many people feel anxious, overwhelmed, or unsure where to turn for reliable information.

- Research consistently shows that people trust information when it comes from family, friends or someone they know.<sup>1</sup> That means conversations you have – calmly, respectfully, and grounded in shared values – really do matter.
- People who see accurate and reliable information first are inoculated against misinformation.
- As more of us understand how climate pollution drives more explosive fire conditions, support will strengthen for swifter and deeper cuts to climate pollution.
- Our conversations play a key role in helping protect the people and places we love from worsening climate impacts.

Download your free guide [here](#)

**Earth Day.org - news**

See [here](#).



Waters beyond national jurisdiction — also known as the “high seas” — host charismatic icons like whales, rays, and sea turtles. They also contain creatures who seem to come from an alien realm: [bone-eating worms](#) snacking on whale skull, candy-colored forests of [bubblegum coral](#), and [siphonophores](#) forming 100-foot-long chains of mouths and tentacles. But human knowledge of this life represents only a fraction of what’s really out there. In fact, scientists estimate that over [90%](#) of marine species remain undescribed, meaning they have not been named or classified in scientific literature.

These otherworldly organisms are good for more than scientific wonder: life on the high seas also helps slow global warming. When phytoplankton photosynthesize on the sunlit surface, they fix carbon to build their biomass. This carbon moves through the food web; as organisms die and produce waste, some of the carbon sinks down to the deep sea, where it can be stored for hundreds to thousands of years. This is known as the [biological pump](#), and it stores [2.8 billion](#) tons of carbon annually (equivalent to 10 billion tons of CO<sub>2</sub>).

Until now, there has been no legally binding international agreement dedicated to protecting biodiversity on the high seas, an expanse that contains [95%](#) of the ocean’s volume. Some light finally pierced this literal and legal abyss when the [Biodiversity Beyond National Jurisdiction \(BBNJ\) Agreement](#) took effect on January 17th, 2026, after nearly 20 years of negotiations at the U.N. The agreement aims to address biodiversity loss and ecosystem degradation in the high seas, which are caused by [climate change](#) and pollution, including [plastic pollution](#).

The BBNJ Agreement includes four pillars designed to protect marine species and ecosystems: here’s how each part works.

### **Global Temperature Report for 2025**

Posted on January 14, 2026 by [Robert Rohde](#) - see [here](#).

Berkeley Earth, a California-based non-profit research organization, has been preparing independent analyses of global mean temperature changes since 2013. The following is our report on global mean temperature during 2025. We conclude that 2025 was the third warmest year on Earth since 1850. It is exceeded only by 2024 and 2023. This period, since 1850, is the time when sufficient direct measurements from thermometers exist to create a purely instrumental estimate of changes in global mean temperature. Berkeley Earth’s analysis combines 23 million monthly-average thermometer measurements from 57,685 weather stations with ~500 million instantaneous ocean temperature observations collected by ships and buoys.

The last 11 years have included all 11 of the warmest years observed in the instrumental record, with the last 3 years including all of the top 3 warmest. The warming spike observed in 2023 to 2025 has been extreme and suggests an acceleration in the rate of Earth’s warming. The spike has multiple causes, including both natural

variability and man-made global warming from the accumulation of greenhouse gases; however, as discussed below, we believe additional factors are needed to explain the full magnitude of this event. Reductions in low cloud cover and man-made sulfur aerosol pollution are likely to have played a significant additional role in recent warming.

Over the previous 50 years, global warming has preceded in an almost linear fashion, consistent with an almost linear increase in the total greenhouse gas forcing. The warming spike in 2023 to 2025 suggests that the past warming rate is no longer a reliable predictor of the future, and additional factors have created conditions for faster warming, at least in the short-term.

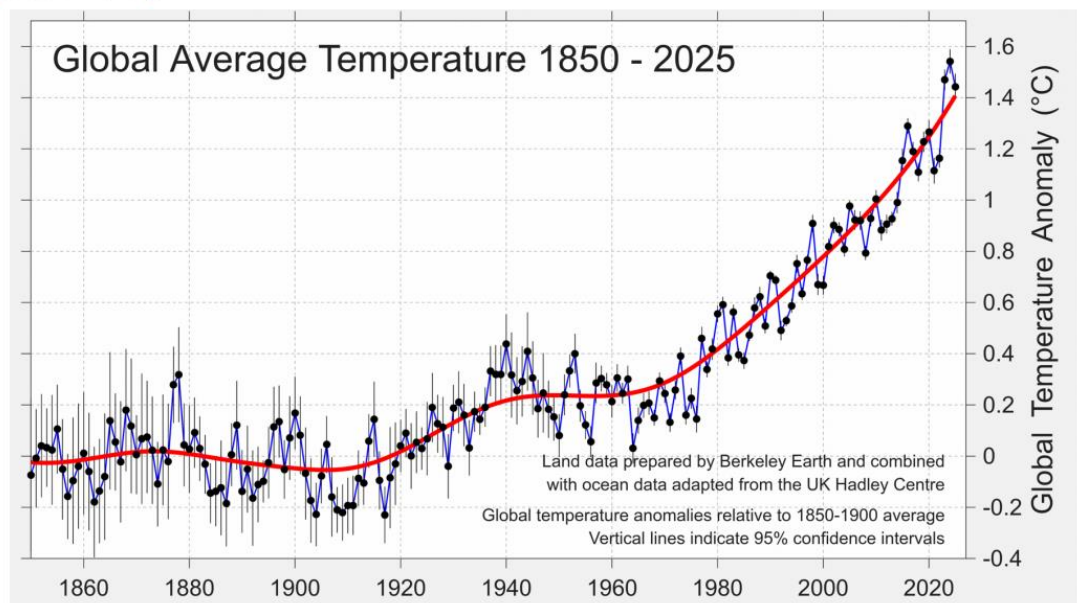
The global annual average for 2025 in the Berkeley Earth analysis is estimated as  $1.44 \pm 0.09 \text{ }^\circ\text{C}$  ( $2.60 \pm 0.17 \text{ }^\circ\text{F}$ ) above the average during the period 1850 to 1900, which is traditionally used as a reference for the pre-industrial period.

Unlike 2023 and 2024, which were El Niño years, 2025 began and ended with a modest La Niña event. La Niña events are typically associated with modest cooling in the global mean temperature. While the Earth cooled in 2025 compared to the previous years, the anticipated cooling effect was relatively modest, at best.

During 2025, 9.1% of the Earth's surface had a locally record warm annual average, including 10.6% of land areas and 8.3% of ocean areas. These areas coincided with a number of major population centers. We estimate that 770 million people — 8.5% of Earth's population — experienced a locally record warm annual average in 2025. The largest population centers affected by record warmth in 2025 were mostly in Asia, including ~450 million people in China.

None of the Earth's surface had a record cold annual average in 2024. Due to natural cooling patterns that have recently begun in the oceans, it is expected that 2026 will likely be similar to 2025. The most likely outcome is that 2026 ranks as roughly the 4th warmest year since 1850, though warmer or cooler outcomes are also possible. The likelihood of record warmth in 2026 is low, but can not be ruled out.

#### Annual Temperature Anomaly



Global Climate Highlights 2025 - see [here](#).



#### Global Climate Highlights 2025

Welcome to the Global Climate Highlights 2025 report, compiled by the Copernicus Climate Change Service (C3S).

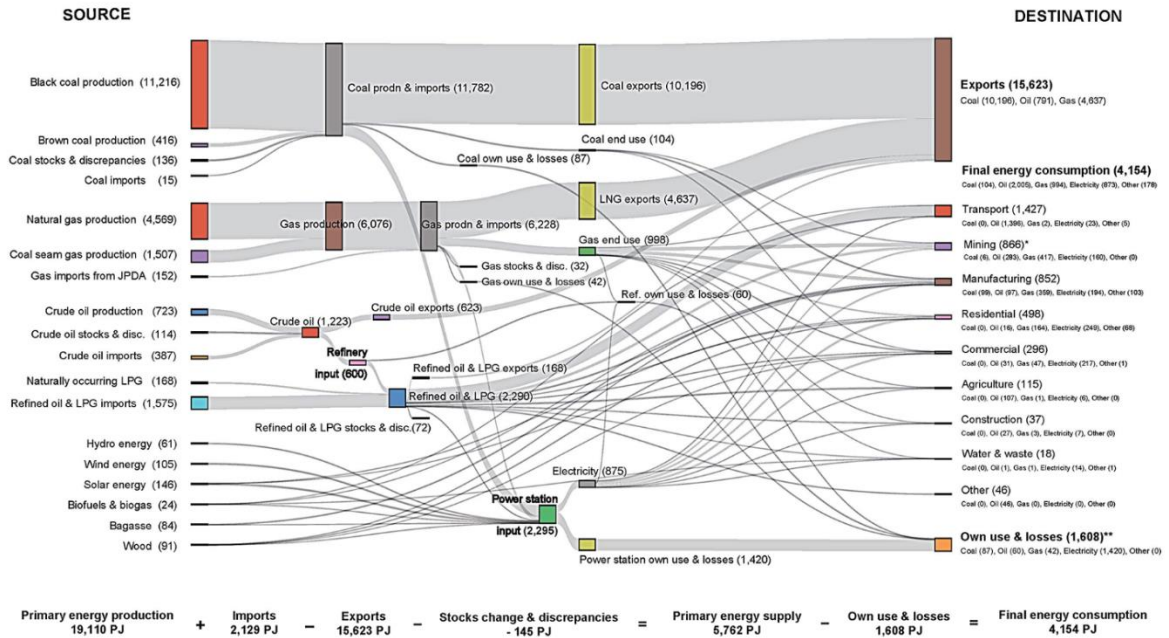
The Global Climate Highlights 2025 report provides authoritative climate data and concise insight on a global scale about 2025's climate conditions, covering surface and sea surface temperature, heat stress, sea ice extent in the Arctic and Antarctic, among others.

[Download the PDF version of the report](#)

The Australian Energy Update

The Australian Energy Statistics is the authoritative and official source of energy statistics for Australia to support decision making, and help understand how our energy supply and use is changing. It is updated each year and consists of detailed historical energy consumption, production and trade statistics and balances. This edition contains the latest data for 2021-22. See more [here](#).

### Australian Energy Flows 2021-22 (Petajoules)



NOTES: Numbers may not add due to rounding. JPDA = Joint Petroleum Development Area. \* includes LNG plant own use of gas. \*\* Conversion plants own fuel use & losses, and transmission losses.

SOURCE: Australian Energy Statistics 2023, Table A, Table F, and Table Q