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Climate emergency declarations by local governments– what comes next?

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More than 2000 jurisdictions globally have declared climate emergencies. Climate emergency declarations are amongst the strongest climate change policy statements. Yet, there has been limited research focusing on what comes after a climate emergency declaration is made, and the extent to which subsequent planning includes ‘transformative’ elements. This research focuses on local governments in the State of Victoria, Australia, and analyses the emergency declarations and subsequent action plans of 39 Councils, applying an analytical framework that defines ‘transformative action’ as including mitigation and adaptation; collaboration action across and within Councils; inclusion of intersecting biodiversity emergency responses; acknowledgement of First Peoples’ knowledges and aspirations; and consideration of justice and equity. Results point to the importance of alliances and networks to push ambition and facilitate informed climate action planning. The research has potential to inform policy both locally and globally and progress understandings of the enabling conditions for transformative approaches.

Climate emergency declarations are one of the strongest climate action policy statements, representing an acknowledgement of the increasingly serious scientific statements of climate change impacts, the far-reaching systemic effects of these impacts, and the urgency for taking action to mitigate the causes¹. In 2007, UN Secretary General Ban Ki Moon stated “this is an emergency, and for emergency situations, we need emergency action¹. The first declaration of a climate emergency was made by City of Darebin, an inner-north municipality of Melbourne, Australia on 5 December 2016². Indeed, it has been suggested that local governments in the State of Victoria (where Melbourne is located) are frontrunners in climate action³. Seventy of the seventy-nine Victorian local governments are now members of one of the eight Victorian-based regional groupings of local governments focused on climate change action (Victorian Greenhouse Alliances)⁴. The Greenhouse Alliances are focused on advocacy, knowledge sharing, and developing and implementing ‘innovative, regional strategies and projects typically beyond the reach of individual councils⁴.

By September 2023, 2,343 jurisdictions in 40 countries had declared a climate emergency⁵. The rate of new declarations in Australia and globally has dropped in recent years (the rate of declarations appears to have peaked in 2019); reasons for this are not the focus of this research. Rather, this research is focused on what comes after the declaration of a climate emergency, and which elements of ‘transformative’ climate action are included in these post-declaration strategic planning responses.

The declaration of a climate emergency, as a strong statement of intent, has the potential to stimulate more ambitious local action, yet in some cases

may act primarily as a political gesture only⁶. The declaration itself may have been motivated by pressure from civil society⁷, or may be perceived as a continuation and amplification of previous experience of environmental action within local government⁸. While some have raised concerns that “much of the talk about climate emergency by local government may merely be symbolic and broadly aligned with their existing local environmental and climate roles and policies⁹, others have suggested that emergency declarations may be “catalysing councils beyond symbolic declarations potentially opening up space for change and disruption¹⁰. This raises the question of what planning and subsequent action follows or is prompted by an emergency declaration. An analysis of urban planning documents of selected US cities, found that “although cities are beginning to address differential vulnerability and adaptive capacity, more work is required to tackle unequal socioeconomic structures and their contributions to underlying drivers of climate injustice¹¹. Some researchers^{12,13} and members of civil society¹⁴ have pointed to the potential for ‘emergency’ and ‘crisis’ framings to potentially reinforce coercive and controlling state powers, potentially involving ‘temporarily suspend[ing] democracy and civil liberties’, and maintaining existing injustices. Concern has also been raised that the ‘international language’ of climate emergency may obscure or displace the existing diversity of local responses¹⁵.

Research conducted on Swedish cities that have declared a climate emergency, examined the extent to which their climate strategies exhibit a climate emergency mode¹⁶. The research applied the Climate Emergency Response Attributes Framework² to assess the extent to which the cities’

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strategies have “moved beyond business as usual to a complex emergency response for climate change¹⁶. However, the research noted that none of the cities have released climate emergency plans following their emergency declarations, and so the analysis was applied to their existing climate strategies¹⁶. Research of 344 cities in the European Cities Mission (a European Commission project aiming to deliver 100 climate neutral cities in Europe by 2030), found that “out of 63 cities with a CED [climate emergency declaration], 59 (93.7%) have developed an LCP [Local Climate Plan], which seems to suggest that the declaration of climate emergency can reach cities not previously engaged in local climate planning¹⁷. However, the analysis did not extend to examining the contents of the subsequently developed climate plans to assess their level of ambition, or how the framing of the emergency declaration was then reflected in planning for action.

Research on climate emergency declarations has analysed the processes and actors involved in the lead up to the emergency declaration, and the factors involved to trigger an emergency declaration^{6–8}. There has been less focus on subsequent action planning. Indeed, “although there is near uniformity of political desire to tackle climate change, action planning is very much work in progress with tight delivery timelines, ... significant divergence in approaches, and an unclear role for the citizen¹⁸. This research therefore aims to examine what comes after the declaration. The research seeks to understand whether there is evidence that an emergency declaration is followed by climate emergency planning that reflects the urgency, complexity and comprehensiveness associated with recognition and declaration of ‘emergency’ status. The research focuses on local governments in Victoria, Australia, the location of the first climate emergency declaration, and addresses the following questions:

- Which local governments have declared climate emergencies and why?
- Did the declaration trigger the development of a climate emergency action plan? If so, what are the key goals or objectives?
- Which ‘transformative’ elements were included in these plans?

‘Transformative’ responses - ‘deep, broad, and rapid society-wide changes’ are increasingly called for by both academics and policy makers, yet there are few shared definitions for ‘transformation’ terminology¹⁹. ‘Transformation’ has been applied separately to climate change mitigation (emissions reductions)¹⁹; and adaptation and resilience (addressing current and future climate change impacts)^{20–22}. Others have proposed a definition of ‘climate change transformation’ which includes the integration of adaptation and mitigation goals²³. This latter approach has been expanded to encompass other dimensions including collaboration, integration and equity²⁴. Catalysing more ‘transformative’ responses requires ‘a greater sense of spatial, temporal and social justice²²; transformative approaches should be contextualised to effectively respond in different regions, yet there are also opportunities for guiding ‘transformative climate action across scales²⁵.

For this research, we consider that to qualify as ‘transformative’, action plans must encompass a range of dimensions^{26,27}, that seek to balance comprehensiveness and feasibility. ‘Transformative’ responses necessitate moving beyond ‘business-as-usual² and require action across numerous sectors and contexts²⁸, reinforcing the complexity of planning climate responses. The Intergovernmental Panel on Climate Change (IPCC), in its Sixth Assessment report, highlights the urgency for action, spanning both mitigation and adaptation; actions must be equitable and inclusive, to reduce losses and damage for people and nature²⁸. IPCC’s recognition of both people and nature reinforces the importance of integrating biodiversity and nature with climate action²⁹, and acknowledgement that without a shared focus on biodiversity conservation and restoration, effective climate action is not possible^{30,31}. For jurisdictions such as local governments that are planning their climate actions and responses, managing the scope of this planning is important, and requires a balance between comprehensiveness and feasibility, targeting areas within the jurisdiction’s control. Bringing together all these considerations, we propose that the dimensions required for ‘transformative’ climate change responses include the following elements (discussed in more detail in the following paragraphs):

- integration across the mitigation-adaptation dichotomy;

- collaboration and integration within organisations, across sectors, and levels of government;
- integration of climate change and biodiversity actions;
- foregrounding and integration of First Peoples’ perspectives; and
- integration of justice and equity considerations.

Integrating across the mitigation-adaptation dichotomy: Climate change mitigation actions focus on reducing greenhouse gas emissions, while adaptation actions focus on adapting to current and future climate change impacts. The two aspects of climate change action are often disconnected, and addressed separately in policy, strategy, action planning, and on-ground implementation³². Yet integrating across the ‘mitigation-adaptation dichotomy³² can promote the avoidance of maladaptation (adaptation that increases emissions, or short-term adaptation that hampers long term adaptation)²³, as well as identifying opportunities for synergies and efficiencies.

Collaboration and integration within organisations, across sectors, and levels of government: The responsibility for planning and implementing climate actions, whether mitigation or adaptation, often spans multiple organisational policies and departments. IPCC has highlighted the importance of integrating climate change actions into “policy making, planning, and decision making across levels and sectors^{28,33}. In a review of climate adaptation policy research³³, a spectrum of approaches for ‘climate policy integration’ is identified, from coordination to harmonisation to prioritisation (the latter being the strongest approach). The elements to be considered to ensure integration include comprehensiveness, aggregation, consistency, incorporation, and prioritisation³³.

Integration of climate and biodiversity action: With the recognition that climate change and biodiversity loss are coupled crises^{29,30}, there are increasing calls for integrating climate change responses with ecological restoration responses^{34,35}, to ensure that climate mitigation actions do not negatively impact biodiversity, and indeed provide positive biodiversity habitat benefits³⁶. Likewise, there are opportunities for ecosystem-based approaches, such as nature-based solutions, to contribute to both mitigation and adaptation efforts^{37,38}.

Foregrounding First Peoples’ perspectives: Planning in settler colonial countries such as Australia takes place on First Peoples’ lands³⁹. First Peoples’ relationship with their land (‘Country’ as it is known in Australia) is characterised by responsibilities of Custodianship – reciprocal responsibilities to people, culture, and Country^{40,41}. Climate-just approaches must foreground First Peoples’ aspirations and knowledges of their land⁴². IPCC recognises the essential place of First Peoples in climate planning and implementation: “Cooperation, and inclusive decision making, with Indigenous Peoples and local communities, as well as recognition of inherent rights of Indigenous Peoples, is integral to successful adaptation and mitigation⁴³”.

Integrating justice and equity considerations: The IPCC highlights the equity and justice dimensions of both the uneven and unjust distribution of climate change impacts. In particular there is a disconnect between those responsible for emissions production and those who benefit from fossil-fuel driven development and affluence, compared to those who are most vulnerable and burdened by climate change impacts⁴⁴. “Social justice and equity are core aspects of climate-resilient development pathways⁴⁴. A focus on ‘climate justice’ and ‘just transitions^{28,45} requires consideration of integrating climate mitigation and adaptation measures that provide wider sustainable development benefits²⁸. Fundamental to justice and equity consideration is inclusive decision-making, ensuring that local communities and civil society are able to be involved in climate planning and decision-making¹¹. The growing ambition amongst cities to meet climate change mitigation targets for 1.5 °C needs to also acknowledge and address the justice and equity concerns that are associated with achieving the necessary action⁴⁶, to ensure a just transition to a net zero future economy and society.

These elements, we argue, are the constituent parts of a comprehensive approach to transformative climate action. We apply these to form the basis

for our analytical framework to assess the extent to which climate emergency action plans of Victorian local councils constitute 'transformative' approaches. The following section presents results of our analysis of the Victorian local councils' climate emergency action plans, including which councils have declared an emergency, the motivators or drivers for the declarations, and the 'transformative' elements included in their emergency plans. The following discussion section highlights how these results relate to research from other cities and municipalities internationally and specifically considers the role of Victorian Greenhouse Alliances in promoting climate responses amongst Victorian local governments. The research methods are included at the end of the paper.

Results

This section presents the results of our analysis of which Victorian governments have declared climate emergencies, and for what reasons; whether they have subsequently developed climate emergency action plans; and how 'transformative' these action plans are.

Which local governments have declared climate emergencies and why?

Of the 79 local governments in the State of Victoria, 39 had declared a climate emergency by the end of November 2022. Of these, 38 local governments (or all but one) are members of one of the Victorian Regional

Greenhouse Alliances. Declarations appear to have peaked during 2019; during that year 19 declarations were made (Fig. 1).

The 39 declaring Councils represent all the different local government contexts in Victoria, including metropolitan, interface (urban-rural fringe), small and large rural shires, and rural/regional cities (Fig. 2). Notably, almost half of the declarations were made by metropolitan councils (18 out of a total of 39 declarations). While these 18 councils constitute the majority of metropolitan councils (18 of the 22 metropolitan councils or 82%) the proportion of non-metropolitan councils (including interface councils, regional cities and shires) to declare an emergency sits below 50% for all other categories (17 declaring councils out of a total of 57 non-metropolitan councils).

The key drivers or motivators for the emergency declarations, as stated in Council meeting agendas and minutes, varied considerably, with the most commonly stated motivation being a local response to global climate policy negotiations, and the intention to connect global climate policy development to local action. Other motivators and drivers included climate science reports as well as observable impacts, including sea level rise and increased frequency and severity of bushfires and heatwaves. Declarations made after 2020 highlighted the severity and impacts of wildfires that had affected much of the state of Victoria during the 2019-2020 summer period⁴⁷. Some declarations were framed as responses to risk assessments (that spanned social, environmental, and economic risks, as well as legal or liability

Fig. 1 | Victorian local government climate emergency declarations by year.

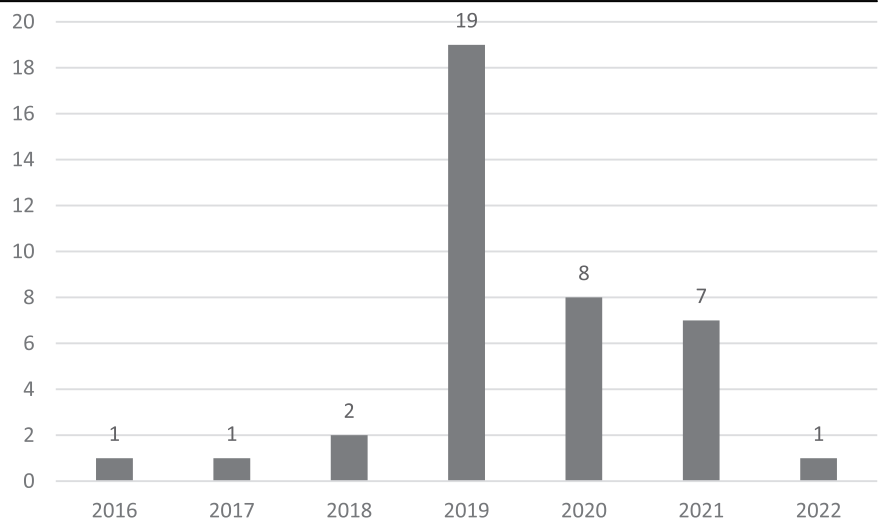


Fig. 2 | As of 2022, 39 of Victoria's 79 local governments have declared a climate emergency.

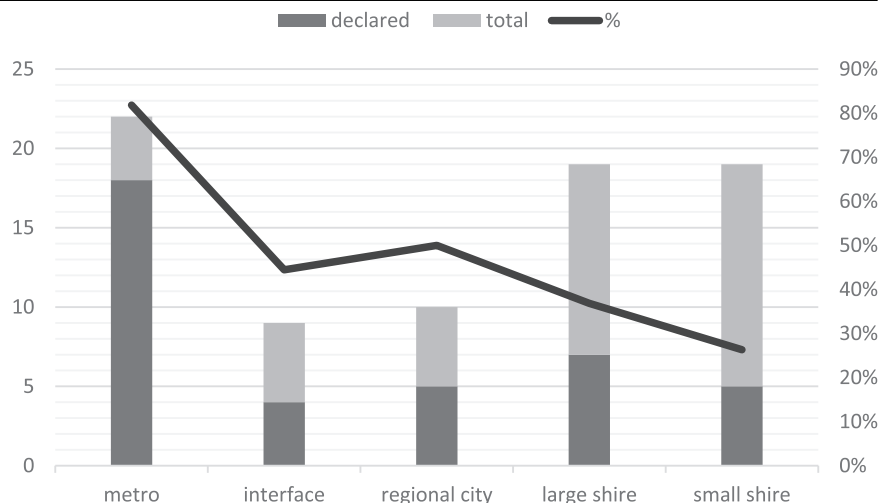
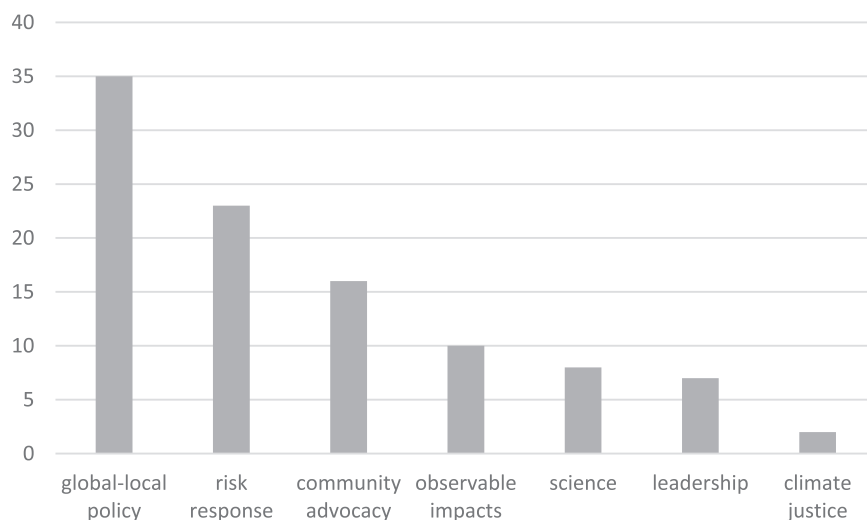


Fig. 3 | Drivers or motivators for emergency declarations.**Table 1 | Climate action plan goals and objectives**

Action plan goal / objective	Terminology used	Number of action plans containing this goal/ objective
Mitigation focused	Net zero; net carbon; decarbonised	15
	Emission reductions	11
	100% renewable	3
Adaptation focused	Resilient community	15
Mobilising or activating	Mobilising Council or community responses; take collective action; coordinated and collective response; collaboration; working together	13
General sustainability	Thriving; liveable; sustainable; vibrant; equitable; inclusive; prosperous; beautiful; environmentally sustainable development; health and well-being	15

concerns). Potential risks to agriculture and tourism were noted for some rural councils and regional cities.

Importantly, responding to local community pressure and advocacy was also a key motivation. Other motivators included concerns related to climate injustice (responding to the relative socio-economic disadvantage of specific local government areas); ambitious climate leadership or, on the other side of the coin, concern of reputational risk of not declaring an emergency. The key drivers and motivators are summarised in Fig. 3 (most plans identify more than one driver or motivator, hence the total number of drivers exceeds the total number of declaring councils).

Did the declaration trigger development of an action plan? What are its key goals or objectives?

Of the 39 local governments that had declared a climate emergency by the end of November 2022, 34 had subsequently developed a dedicated climate emergency action plan. Of the other five councils, three were still developing their action plans at the time of data collection (November 2022), one had included climate action in its overarching Council Plan but had not prepared a separate climate action plan, and one council was yet to develop any subsequent action plan. Of the 34 plans that were completed, 31 of these explicitly referenced 'climate emergency'; somewhat surprisingly, three Councils' action plans did not explicitly reference the climate emergency, or their climate emergency declaration, in their subsequent action plans.

All of the 34 completed plans were reviewed to identify their key goals and objectives. The stated goals and objectives largely fell into six categories (Table 1); many of the action plans included more than one goal or objective. Mitigation-focused goals or objectives were framed as net zero, net carbon, or emissions reductions. Adaptation focused goals or objectives were framed as resilience, resilient community, or resilient council. Examples include 'Reduce emissions, build community resilience against the local impacts of

climate change and ultimately reverse global warming' (Bass Coast, a large rural shire), and 'transition to a decarbonised, thriving economy and build a vibrant and resilient community' (Greater Shepparton, regional city).

It is noteworthy that while mitigation and adaptation were amongst the most frequently mentioned goals or objectives, nonetheless at least half the plans did not include a goal or objective related to these specific themes, with many of these plans instead focused on more generalised goals or objectives of thriving communities, liveable cities, and sustainable environments. Examples included 'A thriving community of empowered citizens working together for an inclusive and sustainable future' (Glen Eira, a metropolitan council); and 'Thriving, safe, just, and prosperous local communities' (Hepburn, a small rural shire). Another group of objectives or goals focused on mobilising council, community or 'collective' action. Examples included 'We have the capacity to achieve our aspirations, and inspire others along the way' (Boroondara, a metropolitan Council); 'Mobilise and enable the community to act on climate change' (Indigo, a small rural shire); and 'leverage Council resources and spheres of influence to support and accelerate our community response' (Kingston, a metropolitan council). Other themes included 'Guided by science' (Queenscliffe, a small rural shire); 'living within planetary boundaries' (Hepburn, a small rural shire); and 'pushing for urgent change and changing the way we live and work' (Yarra, a metropolitan council).

Which transformative elements are included in climate plans?

All completed and draft plans were analysed to assess the inclusion and relative frequency of the key dimensions of transformative climate action: mitigation; adaptation; collaboration; biodiversity; Indigenous/First Peoples' perspectives; and justice and equity considerations. All text for each Council's climate plan was included in the analysis (not just the key goals or objectives, that were the focus of the previous section of this research). The

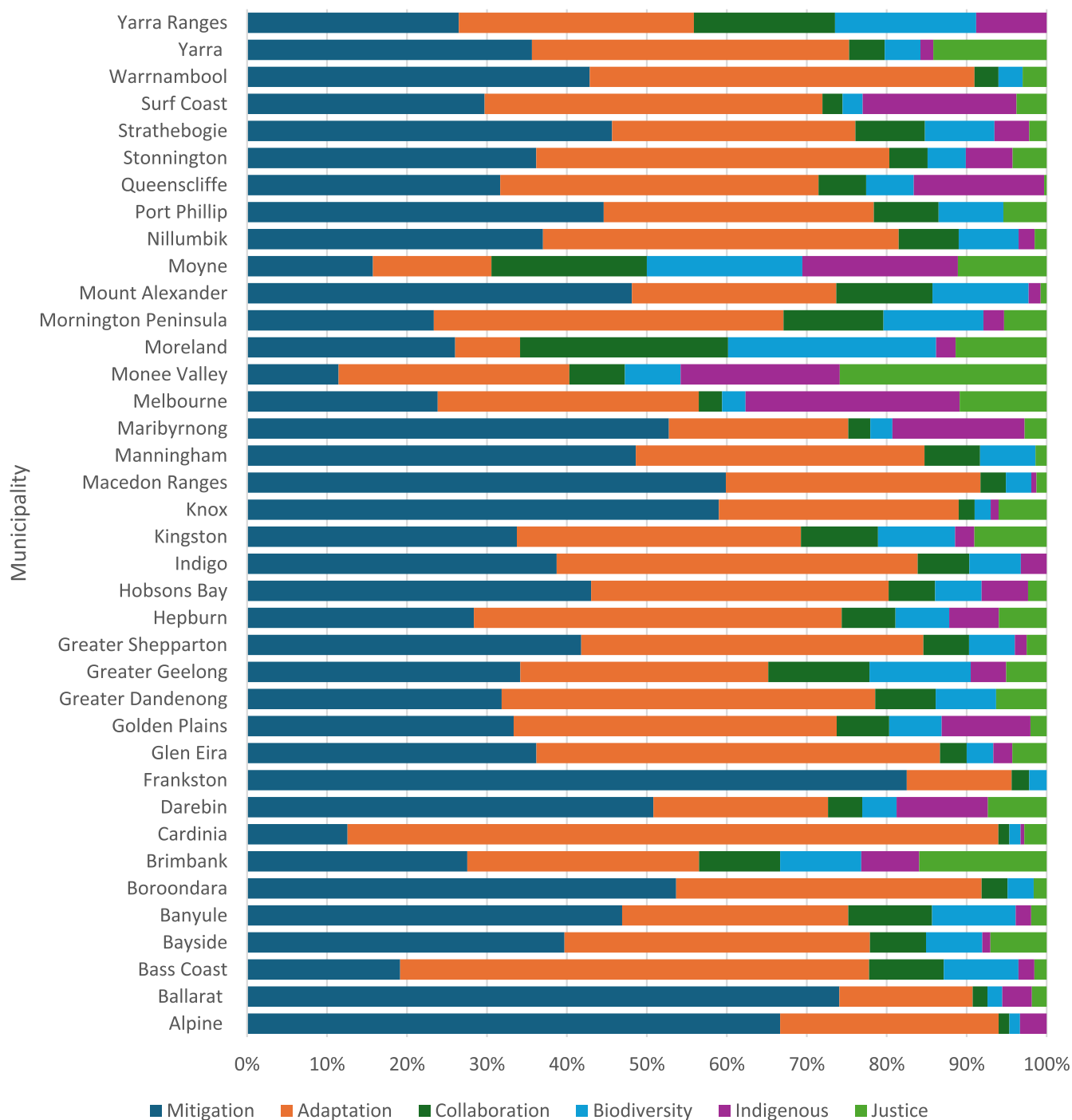


Fig. 4 | Proportional frequency of 'transformative' climate action search terms.

relative frequency, rather than absolute frequency or total number of inclusions, was analysed, so that shorter plans (with fewer words) could be effectively compared with longer plans. The relative frequency of terms in each of the climate action plans is represented in Fig. 4.

Of the 38 plans analysed, 30 plans included at least one reference to all dimensions of transformative climate action. Of the remaining eight plans, four plans included at least one reference to all dimensions except Indigenous/First Peoples' perspectives; three plans included at least one reference to all dimensions except justice and equity considerations; and one plan did not include Indigenous/First Peoples' perspectives or justice and equity considerations.

Of the 38 plans, 36 plans' relative frequency of mitigation and adaptation dimensions exceeded the relative frequency of the other dimensions.

Of the other 2 plans, one showed a greater frequency of Indigenous/First Peoples' perspectives than mitigation; and the other showed a greater frequency of both Indigenous/First Peoples' perspectives and justice and equity considerations than mitigation. However, for most plans, mitigation frequency exceeded 20% (34 plans), and adaptation frequency exceeded 20% (34 plans). Likewise, for most plans the other four dimensions were less than 20% each (37 plans for collaboration; 37 plans for biodiversity; 36 plans for Indigenous/First Peoples; and 37 plans for justice and equity considerations).

The results reflect that local governments are actively engaged in planning for climate mitigation and adaptation actions, which are broadly understood to form the basic and 'universal' elements of climate action planning^{48–51}. Examples include Bass Coast Shire's goals of 'zero net

emissions by 2030 and to respond to climate impacts already being felt and projected in the future'. Darebin's plan states that core goals include 'to provide maximum protection for the community of Darebin and for people, civilisation and species globally, especially the most vulnerable; ... to protect people, species and civilisation from near-term dangerous temperatures, while zero emission and carbon dioxide drawdown strategies are being enacted; to enable our community to be resilient in the face of any unavoidable dangerous climate impacts'. Port Phillip's plan states 'Council declared a climate emergency in 2019, recognising that climate change is a global challenge, and everyone must play their part. We are reducing our own emissions and preparing our City and community for a changing environment'. These quotes highlight the centrality of mitigation and adaptation in most plans, as well as recognition of the need for collaboration between local government and community, other levels of government and business.

It is notable that 30 of the 38 plans included at least one reference to all the dimensions of transformative climate action, suggesting that the local governments that have made emergency declarations have also developed a relatively comprehensive and sophisticated approach to climate action planning that integrates at least some mention of a broad range of transformative dimensions. For example, Hepburn's plan includes an opening statement on 'Caring for and Healing Country' from the CEO of the Djaara (Dja Dja Wurrung People) Traditional Owners Corporation, that states 'we have a duty to care for our Country and feel ashamed and sad that it is currently suffering. When the Country suffers, we suffer. ... [this plan] presents an important opportunity to walk together and heal Country'. City of Greater Geelong's Plan Executive Summary states that 'Climate change is not solely an environmental issue. It has implications for every aspect of how we live – our social systems, economic systems and the natural systems upon which we all depend. We need to act quickly, decisively and collaboratively to make a difference'. However, mitigation and adaptation still dominate the majority of the plans analysed, with considerably less coverage of the other dimensions.

Discussion

Climate emergency declarations have been an important focus for community advocacy and mobilisation. To ensure that a declaration is more than grandstanding, hollow symbolism or greenwashing¹⁰, some form of action plan development, followed by associated implementation of these plans is necessary. Almost all Victorian Councils that have declared emergencies, have since developed climate action plans, demonstrating a commitment to moving from declaration to planning for climate action. Many of the plans define ambitious targets and whole-of-council responses. Collaboration and intermediation are important – these are acknowledged in both the emergency declarations themselves, and in the subsequent action plans. Collaboration includes efforts across Councils as well as between Councils and their local communities, while intermediation includes linking between councils and other organisations, often through membership of a local government or climate change alliance or network^{32,33}.

Membership and involvement in alliances and partnerships appears to play a role in raising ambition and informing the development of subsequent action plans. The global climate emergency declaration database (<https://climateemergencydeclaration.org/>) highlights membership of a range of alliances including C40, ICLEI, Global Covenant of Mayors, Under2, Cities Power Partnership, Race to Zero, and the Fossil Fuel Non-proliferation Treaty. Research on regional alliances and networks has pointed to the processes and mechanisms by which these networks can extend or 'scale up' action^{17,53–56}. For example, a study that compared adaptation actions at the local and regional scale in Melbourne Australia and Gothenburg Sweden, found that regional scale adaptation can 'identify, connect, and amplify small-scale (local) wins and utilize this collective body of knowledge to challenge and advocate'⁵⁷.

In Victoria, many local governments are members of one of the 8 Victorian Greenhouse Alliances, which provide forums for local government members' information sharing, collaboration, and project

implementation⁴. The first regional greenhouse alliance formed in 2000; by 2018 there were 8 regional alliances with membership including 70 of the 79 Victorian local governments⁴. The minutes of the council meetings at which the emergency declarations were made, as well as the subsequent emergency action plans, recorded the vital roles that both global and local/regional partnerships, networks, and alliances played in accelerating climate action within the declaring local governments. Terms such as knowledge sharing, capacity building, competition, and local climate leadership were common within most of the action plans. Councils with limited capacity to tackle the climate emergency (including smaller councils and rural shires), were keen for support, while the highly active and well-resourced councils (often larger metropolitan councils) saw alliance membership as an additional opportunity to demonstrate leadership. Arguably, the alliances create an 'implementation ecosystem' or enabling environment⁵⁸ that both informs climate action planning and encourages ambitious action through 'friendly competition' between alliance members. There are opportunities for further research to elaborate the roles of regional alliances and collaborations in climate action planning, implementation and evaluation.

Emergency declarations have been framed as public and ambitious commitments to increased climate change action, potentially pushing both local accountability and local influence on national and global climate policy decision-making⁵⁹. Transformative action has been contrasted with business-as-usual and incremental approaches^{60,61}; in this research we have applied a framework for 'transformative' elements that highlights the range of dimensions that need to be included. This provides a contribution towards tangible guidance for climate emergency action plan development. Importantly, while the plans analysed in this research included a range of 'transformative' elements, plans must be implemented for results to be achieved, and a key challenge in moving from ambition to action is ensuring adequate allocation of funding and resources to enable this shift⁶². This is beyond the scope of the current research, but further research that evaluates the effectiveness of implementation of climate action plans would be highly relevant.

While an emergency declaration is seen as a key statement of ambition and commitment, it is the subsequent framing and implementation of actions that constitutes and demonstrates the extent to which this can be considered transformative action. This research has focused on the development and content of climate action plans following the emergency declaration; further research is required to assess whether a climate emergency declaration has indeed generated increased implementation of transformative action and responses. Recent research has examined the adequacy of mitigation targets in built environment policies across Federal, State and local government in the City of Melbourne⁶³; future research could apply this approach to an analysis of the climate emergency plans identified in this research to assess adequacy and ambition. It would also be informative to examine more recent emergency declarations and associated plans to assess whether approaches have evolved or strengthened over time. Future research could also consider whether there are differences between planning and implementation based on size and location (urban-rural context) of the local governments, and whether there are differences in content, ambition and implementation between declaring and non-declaring councils.

A focus on integrating all elements of transformative action into subsequent planning and implementation is essential to ensure that the transition to a safe climate future is also a just climate future²⁸, and that 'inequalities are not exacerbated by climate action'⁶⁴. This research has contributed to research in this area by identifying five key elements for transformative climate responses; and by bringing together an important data set – Victorian local governments that have declared a climate emergency. Victoria is a significant location, being the state in which the first emergency declaration in the world was made in December 2016 by Darebin City Council. To date, Victorian Councils that have declared an emergency appear to be reinforcing the importance of collaboration, agency, and empowerment for local communities, and as such aiming to foreground approaches to just, comprehensive, and effective climate action. Reviewing

Table 2 | Council emergency action plans analysed

Municipality	Year of publication	Title	No of pages
Alpine	2021	Climate Action Plan 2021–2024	27
Ballarat	2019	Carbon Neutrality and 100% Renewables Action Plan 2019–2025	15
Banyule	2020	Community Climate Action Plan (CAP). Working in partnership for a zero net emissions and resilient Banyule by 2040	77
Bass Coast	2020	Climate Change Action Plan 2020–2030	89
Bayside	2020	Climate Emergency Action Plan 2020–2025	55
Boroondara	2021	Climate Action Plan	28
Brimbank	2020	Brimbank Climate Emergency Plan 2020–2025	32
Cardinia	2022	Climate Change Adaptation Strategy 2022–33	41
Darebin	2017	Darebin Climate Emergency Plan 2017–2022	143
Frankston	2019	Towards Zero Emissions Plan 2019–2023	56
Glen Eira	2021	Draft Glen Eira Our Community Climate Emergency Strategy 2021–2025	44
Golden Plains	2022	Climate Emergency Plan 2022--2032 Draft	38
Greater Dandenong	2020	Climate Emergency Strategy 2020-2030	138
Greater Geelong	2021	Climate Change Response Plan	56
Greater Shepparton	2022	Our Climate Safe Future. Climate Emergency Action Plan	125
Hepburn	2022	Sustainable Hepburn 2022 / 2026	126
Hobsons Bay	2022	Hobsons Bay Response to Climate Change Action Plan	22
Indigo	2020	Climate Emergency Strategic Action Plan	4
Kingston	2021	Climate and Ecological Emergency Response Plan	33
Knox	2021	Climate Response Plan 2021-2031	22
Macedon Ranges	2017	Climate Change Action Plan	75
Manningham	2022	Climate Emergency Action Plan Draft for Public Consultation	13
Maribymong	2020	Climate Emergency Strategy	48
Melbourne	2021	Council Plan and Emissions Reduction Plan for Council Operations 2021–2026	88
Monee Valley	2018	MV2040 Strategy	106
Moreland	2019	Zero Carbon Moreland – Climate Emergency Action Plan 2020/21 – 2024/25	26
Mornington Peninsula	2020	Ensuring our Future. Our Climate Emergency Response from 2020 to 2030. A place where people and nature thrive	173
Mount Alexander	2020	Roadmap to Carbon Neutrality 2020-2025	44
Moyne	2021	2021-25 Council Plan	44
Nillumbik	2022	Climate Action Plan 2022-2032	48
Port Phillip	2022	Climate Action update. Taking Action on the Climate Emergency	22
Queenscliffe	2021	Climate Emergency Response Plan 2021–2031	72
Stonnington	2021	Towards Zero Carbon 2030: Our Climate Emergency Action Plan 2021–2024	52
Strathbogie	2022	Climate Change Action Plan 2022-2027	28
Surf Coast	2021	Climate Emergency Corporate Response Plan 2021-2031	38
Warrambbool	2012	Climate Change Action Plan	33
Yarra Ranges	2020	Liveable Climate Action Plan 2020-2030	18
Yarra	2020	Yarra Climate Emergency Plan 2020-2024	86
Total pages			2185

the implementation of the climate action plans in future will likely prove instructive.

Methods

This qualitative research focused on examining climate emergency declarations and subsequent climate action plans in Victorian local governments. The State of Victoria, in south-eastern Australia includes 79 local governments, including the metropolitan-based City of Darebin, which was the first jurisdiction in the world to declare a climate emergency, in December 2016. The research brought together data from civil society and local government online published meeting agendas, minutes, reports and

strategies. These were analysed using directed content analysis to generate research findings. Analysis was informed by the key principles and research to date on climate emergency declarations and on climate action planning, which was discussed in the Introduction.

Firstly, to identify which of Victoria's 79 local governments had declared a climate emergency by the end of November 2022, data was accessed from the Climate Emergency Declaration global database (<https://climateemergencydeclaration.org/>). This database and website are created and maintained by a collaboration of Australian-based civil society climate activist groups (<https://climateemergencydeclaration.org/about/>). Following the identification of which local governments had declared a climate

Table 3 | 'Transformative' climate action: NVivo search terms

Transformative concepts	Search words
Mitigation	Mitigation/mitigate, GHG, greenhouse gas emissions, net zero, low carbon, energy efficiency, renewable energy
Adaptation	Adaptation/adaption/adapt, impact
Collaboration	Collaboration, integration
Biodiversity	biodiversity, species, at risk, intersecting emergencies, habitat, ecosystem
Indigenous	Indigenous, First Peoples, Aboriginal, Traditional owners/custodians, First Nations
Justice	Justice, equity, rights, fair/fairness

emergency, the meeting agendas, meeting minutes, and Council reports were downloaded from each of the 39 declaring Councils' respective website. These documents were used to identify the motivation for declaring a climate emergency, and the stated wording of the emergency declaration.

To address the second research question, did the emergency declaration trigger the development of a climate emergency action plan, the websites of the 39 Victorian Councils that had declared a climate emergency were searched to discover whether a climate change action plan had been developed following the declaration, and whether the action plan specifically referenced the emergency declaration. Where an action plan had been published (34 published plans, that include 3 draft plans and 31 final plans), the overarching objective, aim or goal was recorded.

To address the third question, which 'transformative' elements were included, we undertook content analysis of the most recent climate plans of declaring councils (38 in total, see Table 2) using NVivo, a software program for qualitative data analysis. (For the 4 councils where a draft or final plan had not been published, the Council's key strategic plan was analysed).

First, each plan was read in its entirety to develop a general understanding of the content. The plans were then uploaded into NVivo. For the 'text' search function, 22 terms (including stemmed words, see Table 3) were used across the transformative concepts:

- Explicit inclusion of both mitigation and adaptation
- Collaboration across Council, including a suite of actions across whole of Council, and collaboration between departments within Council
- Recognition or inclusion of intersecting biodiversity emergency
- Indigenous knowledges, perspectives and aspirations
- Social justice

The list of terms was developed based on our literature review and was adapted through multiple rounds of coding the plans to determine the most appropriate terms. Each term was input into the 'text search' one at a time. With each search, the query results were reviewed to determine the location, context, and use of the word in each plan. The frequency of the terms was recorded for each transformative category for each local government. Analysing the frequency of terms is used to identify trends, priorities, and prevalence of words and phrases⁶⁵. This analysis provided us with data across the 38 plans, as well as for the individual plans. Analysis and comparison of the search findings focused on the relative proportional inclusion of terms, in the form of percentages, rather than absolute number of term inclusions (so that shorter plans were not disproportionately impacted compared with longer plans).

Data availability

Data available on request.

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Competing interests

The authors declare no competing interests. Judy Bush was previously employed by one of the regional greenhouse alliances discussed in the article.

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