

Locally-led adaptation

Aims

 Provide background to this work and outline progress to date

2. Seek community and stakeholder input on current and upcoming initiatives



Please reflect on the following questions

- 1. What is a climate resilient community?
- 2. What more can we do to promote build climate resilience in lakeside suburbs between Teralba and Toronto?
- 3. How can the community become involved?



Definitions

Adaptation	The process of adjusting to actual or expected changes in climate to reduce or avoid climate impacts, or exploit beneficial opportunities.
Resilience	The capacity of communities, environments and economies to cope with a hazardous event or disturbance, while maintaining their essential functions and
	structure.
Mitigation	The action we take to limit changes in global climate caused by human activities.
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National Climate Resilience and Adaptation Strategy 2021-2025

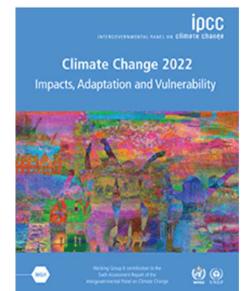
Governance Frameworks

International

National

State

NSW





Autralian Government
National Climate Resilience
and Adaptation Strategy
2021 - 2025
Profilement Autralia to better anticipate manage







Governance Frameworks - Local



Lake Macquarie City Council Delivery Program and Operational Plan

"Commence Stage 2 (options analysis) of the Fennell, Edmunds and Kooroora Bays Climate Resilience Plan, including a community options assessment".

STRATEGY 5.4.2		ACTION 2022-2023	QUADRUPLE BOTTOM LINE
ADAPT OUR CITY		Complete building optimisation analytics program at Swansea Multi-Purpose Centre	Environmental
TO A CHANGING CLIMATE		Complete new battery and diesel generator backup system at Council's Works Depot, Boolaroo	Economic Environmental
	8	Implement the energy resilience program, city-wide	Environmental
\langle		Commence stage 2 of Fennell, Edmunds and Kooroora Bays Climate Resilience Plan, including a community options assessment	Environmental



Our climate resilience planning is focussing on the nine lakeside suburbs between Teralba and Toronto

TeralbaWoodrisingFassifernBooragulBolton PointBlackalls ParkMarmong PointFennell BayToronto

Climate related risks and impacts ...

The Bureau of Meteorology, CSIRO and NSW Government agencies predict an increase in climate related risks over the coming decades:



Rising sea and lake levels



Changes in bushfire regime



Urban heat island effects including an increase the number of days over 35°C



More frequent and intense storm events

These could impact our local community:

Damage public and private assets including our homes, community facilities, roads, drainage and other infrastructure



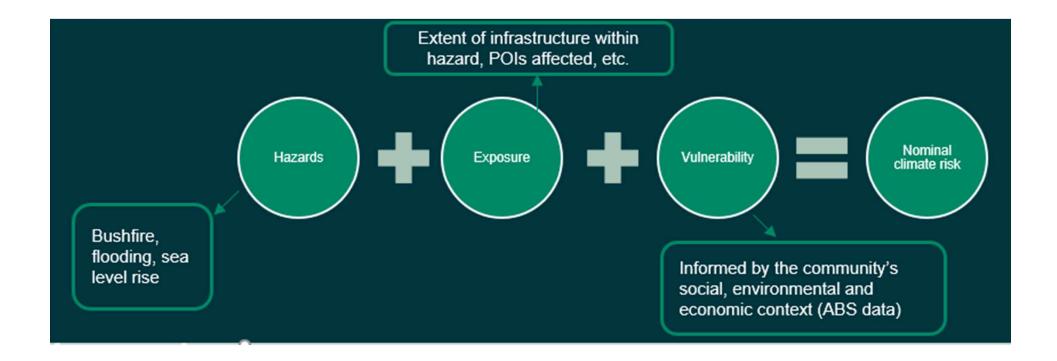
Threaten valuable ecosystems including our unique plant and animal communities



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- Pressure food and water security and the cost of living
- Effect personal safety and wellbeing

Building our understanding of climate related risks and impacts



Summary of projected (2050) sea level rise impacts for lakeside suburbs between Teralba and Toronto

Lake levels are projected to rise 0.4m by 2050 and 0.9m by 2100 (relative to 1990 lake levels).

We analysed how a large storm event (1% AEP – similar to 1 in 100 year event) might impact on our lakeside suburbs in 2050.

Significant inundation of properties, public and private assets will occur as a result of climate change.

Assets at risk with the nine suburbs include:

- Sports fields
- Jetties and wharves
- Boat ramps
- Marmong Cove Marina
- Headlands and foreshore reserves
- Parks and playgrounds
- Caravan Park
- Swimming pool
- Public and private buildings

Roads within hazard extent **17km**



Buildings within hazard extent **565**



Points of interest within hazard extent **40**



Cycleways within hazard extent **87km**

Snapshot of assets impacted by bushfire, flooding, and sea level rise across the 9 suburbs

Assets exposed or impacted	Bushfire (current risk)	Flooding (current 1% event)	Sea level rise (2050 1% Event)
Council roads (km)	100	15	17
Public and private buildings	2,051	251	565
Points of interest: Facilities incl. schools, hospitals, aged care etc.	51	12	40
Cycleways/shared pathways (km)	110	63	87
Water mains (km)	_	12	163

Community and stakeholder engagement framework for Climate Resilient Teralba to Toronto

Shape Lake Mac Phase One: High level feedback on hazards and options (2021 – 2023) Phase Two: Design and testing phase with community (2023 – 2024)

Phase Three: Public exhibition of draft plan (2024)

Ongoing Volunteer Working Group meetings

Sustainability Engagement

Emergency preparedness and disaster risk reduction activities

Phase 1 engagement approach

- Postcard, poster, newsletter distribution with library and community group and facility focus
- Online and hard copy survey and interactive map
- Shape Lake Mac site, social media and e-news channels
- Links with Council's Youth Advisory Council and Red Cross Community Youth Teams pilot project
- Pop-up engagement sessions aligned Sustainability Engagement and other community activities

HAVE YOUR SAY

visit a drop-in information session (details to be advised)

- visit shape.lakemac.com.au/Climate-Resilient-Teralba-to-Toronto to learn more, ask questions, complete our community survey, or share ideas and comments on our interactive map
- email council@lakemac.nsw.gov.au or telephone 49210333 to ask a question, comment or receive project updates
- if you can't access our online resources, please visit Toronto or Speers Point Libraries for a copy of the community survey or to register your interest.

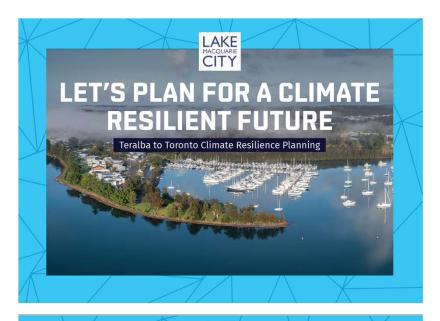
Get involved!

Your comments will inform our understanding of climate related risks and help us plan for a more resilient future.





Example of interactive map.



LET'S PLAN

Help build climate resilience from Teralba to Toronto

- Understand what a major flood event might look like for lakeside suburbs around Toronto and Teralba now and in 2050 or 2100.
- Explore how a changing climate is likely to influence bushfires, urban heat, food and water security.
- Learn about other climate related impacts for your local area and help identify positive actions we can make.

Get involved

Help influence and build climate resilience in your community. Feedback closes 5 March 2023.

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CREATING A MORE CLIMATE RESILIENT COMMUNITY FROM TERALBA TO TORONTO

HELP PLAN FOR THE FUTURE

The western side of Lake Macquarie offers a great lifestyle and it's important we all protect and care for our local community, environment and economy.

The Bureau of Meteorology, CSIRO and NSW Government agencies predict an increase in climate related risks over the coming decades:

- 📚 Rising sea and lake levels
- A Changes in bushfire regime
- Urban heat island effects including an increase the number of days over 35°C
- More frequent and intense storm events

These could impact our local community:

- Damage public and private assets including our homes, community facilities, roads, drainage and other infrastructure
- Threaten valuable ecosystems including our unique plant and animal communities
- Pressure food and water security and the cost of living
- Effect personal safety and wellbeing

We want to work with residents, businesses and others to develop locally-led climate adaptation planning and more resilient lakeside communities.



WHERE WILL THIS WORK FOCUS?

Teralba	Woodrising	Fassifern
Booragul	Bolton Point	Blackalls Park
Marmong Point	Fennell Bay	Toronto

Question prompts

- 1. What is a climate resilient community?
- 2. What more can we do to promote build climate resilience in lakeside suburbs between Teralba and Toronto?
- 3. How can the community become involved?



Get involved



Visit: shape.lakemac.com.au/teralba-to-toronto

E-mail: <u>Council@lakemac.nsw.gov.au</u> (subject Teralba to Toronto)

Phone: 4921 0333

Thank you