

## Climate Emergency

### Adaptation actions

#### Key message:

Assessing built and natural assets' vulnerability to climate hazards, and building resilience into existing and new development is the most significant and direct role Council can play in responding to climate change.

A range of Council's existing work programs actively contribute to Tweed's climate adaptation and resiliency such as Roads and Stormwater, Water & Wastewater, Design Unit, Strategic Planning & Urban Design, Building and Environmental Health, Development Assessment Unit, Coastal Management, Biodiversity, Sustainability, Sustainable Agriculture, Waterways, Pest Management, Parks & Active Communities, Enterprise Risk & Emergency Management, Community Development, Community Services and Land & Economic Development.

The following 20 actions highlight Council's key existing and new priorities to improve the resilience of the Tweed to the impacts of climate change, noting:

- Half of the actions listed will enable Council to have a direct impact on climate resiliency (as distinct from seeking to influence others' actions for outcomes)
- Five ongoing and three new projects with climate adaptation benefits are funded with a total value of over \$86.9 million. Three other existing actions do not have cost or funding certainty but are managed within existing budgets.
- Funding of \$400,000 on new climate resilience measures is in place, and a further \$70,000 per annum is needed.

ID	Climate adaptation action summary	Action details	Can we have a direct impact?	Cost and funding source	Funding status	Certainty that action can be delivered
<b>Ongoing</b>						
Adapt 1 Eng	Protecting Tweed's drinking water supplies	Council resolved to plan for raising the wall of Clarrie Hall Dam to meet the demands of the shire's growing population and address the anticipated effects of climate change on the amount of water available to meet demand, particularly during severe drought.	Direct	\$80 million Water Fund reserves and Loans	Funded	High
Adapt 2 Eng	Bray Park Weir - Modifications	Adopt a preferred option	Direct	Water Fund Reserve	Funded	High
Adapt 3 Eng	Review the Tweed DCP Section A5 Subdivision Manual	Review all requirements for subdivision development to enable climate resiliency, sustainable development, public and active transport, energy and water efficiency, waste reduction and reuse of materials.	Indirect	From existing budgets	Funded	Medium
Adapt 4 Eng	Water efficiency best practice review	Council is reviewing our ongoing work to augment the water supply and improve the outcomes of water saving and drought management initiatives in line with industry best-practice	Indirect	Within existing budget	Funded	Medium
Adapt 5 GM	Industry Central Land Swap	Assisting businesses within the high-risk flood zone in the South Murwillumbah industrial precinct to relocate to land above the 1 in 100 year flood level via a conditional land swap agreement.	Direct	\$6.6 million grant funded	Funded	High
Adapt 6 P&R	Tackling Mosquitoes Together – Holistic approach to mosquito management.	Mosquitoes spray, incorporation of mosquitoes breeding grounds assessment as part to the EH DA assessments. Collaboration with other regional Councils. Community education.	Both direct (spraying, monitoring) and indirect (education)	\$30,000 ongoing	Partly funded	Medium
Adapt 7 SC&E	Implement strategic pest animal management	Develop and implement strategic programs to protect native flora and fauna from the impacts of pest animal. Programs should include works on Council managed land, as well as build capacity within the local community.	Indirect	Not yet determined	Partly funded	High
Adapt 8 SC&E	Adapting to future hazard of tidal inundation and planning for management of at risk areas and assets.	Mapping currently exists. There is a pathway through the Coastal Management Act and SEPP to create tidal inundation hazard zones.	Both direct (Council asset review and resilience) and indirect (making existing built form resilient)	Cost is difficult to estimate as the process to complete a part 3 planning proposal is unclear. The response of the NSW Government (both Planning and Environment) to the process within the context of the Coastal Protection and EP&A Act is difficult to predict. It is likely that the work required would be in the order of \$100,000. It is possible that a grant could be secured through the NSW Estuary Program at 1:2	Partly funded	High
<b>New</b>						
Adapt 9 Corp	Update the Tweed Climate Risk Assessment	Identify and assess the risks that climate change pose to local government operations, and prioritise risks that require further action.	Direct	\$15,000, TSC Climate Change Fund	Funded	High
Adapt 10 Corp	Councillor climate pledge	Articulate the Tweed's key climate response priorities for Councillors' advocacy in the community and upper levels of government.	Indirect	Nil	Funded	High

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Adapt 11 Eng	Engage suppliers about climate change	As per COVID-19 invite suppliers to describe what initiatives they are taking to respond to climate change.	Indirect	Nil	Funded	Medium
Adapt 12 GM	Resilient Leadership program	Building resilient leaders amongst professionals from tourism, small business & community organisations through interactive workshops and mentoring.	Indirect	\$100,000 - grant funded	Funded	High
Adapt 13 GM	EarthCheck Sustainable Destinations Program	Benchmark the Tweed Shire as a sustainable tourism destination. Map climate hazards, risks and opportunities for tourism in the region, and develop tactical plans and targets for mitigation and adaptation responses.	Indirect	\$165,000, Federal Bushfire Recovery Fund	Funded	High
Adapt 14 SC&E	Bushfire asset protection zone (APZ) audit and implementation of priority actions	Conduct an audit of APZs maintained by council in accordance with the Far North Coast Bushfire Risk Management Plan and asset protection standards. Identify and implement actions to ensure best practice risk management	Direct	\$120,000 Bushfire Recovery and Resilience Funding	Funded	High
Adapt 15 SC&E	Cross-organisation Climate Emergency Working Group	Share information and engage the community about Council's climate response and actions the community can take action on.	Indirect	Not yet determined	Funded	Medium
Adapt 16 SC&E	Cool Towns Program: Increasing shire canopy cover	Planting of trees in high heat areas of the shire. Community education programs and review of planning instruments to ensure adequate canopy cover in new developments	Direct (planting) and indirect (planning controls)	\$70,000 p/a. No source identified	Partly funded	High
<b>Aspirational</b>						
Adapt 17 SC&E	Future proof Council's bushland reserves	Identify and prioritise management actions to address existing, new and emerging threats. Identify opportunities to improve connectivity through revegetation and cross tenure projects.	Direct	Not determined	Not funded	Medium
Adapt 18 SC&E	Landward regression of coastal habitats	Identify land to allow for the landward regression of coastal ecological communities at risk from climate change impacts including sea level rise, extreme weather events and novel weed incursions	Direct	Not determined, analysis could be performed by existing staff. Cost and process to acquire land not included to this project	Not funded	High
Adapt 19 SC&E	Council-owned community assets review	Audit of Council-owned community buildings to assess existing climate resilience features.	Direct	\$50,000 estimated	Not funded	Low
Adapt 20 SC&E	Council-owned community assets improvement	Scope resilience adaptations required	Direct	\$50,000 estimated	Not funded	Low