



ADAPTING PRIORITY COASTAL RECREATIONAL INFRASTRUCTURES FOR CLIMATE CHANGE

There has been extensive investment along the NSW coastline into public infrastructure that is highly vulnerable to the impacts of climate change. This includes recreational infrastructure, such as wharves, jetties, beaches, promenades, parks, pools, pathways and boat ramps.

Manly Hydraulics Laboratory (MHL) and Engineers Australia through its National Committee on Coastal and Ocean Engineering (NCCOE) were engaged by Sydney Coastal Councils Group (SCCG) to prepare an assessment tool to provide a decision framework for recreational coastal infrastructure asset management and planning.

This project provides coastal councils and managers with a tool to make more rational and strategic decisions in responding to the effects of existing hazards and climate change, and to maximise public value for money by building resilience through explicit triggers and well-defined funding models. It does so through the integration of three guidelines written by NCCOE; these guidelines were designed to help coastal engineers and asset managers in their planning, design and management strategies for adapting to climate change in Australia.

SIMPLE

User friendly – spreadsheet usable with all systems

INTEGRATED

Can incorporate local knowledge using user judgement

INNOVATIVE

New approach to asset management

FLEXIBLE

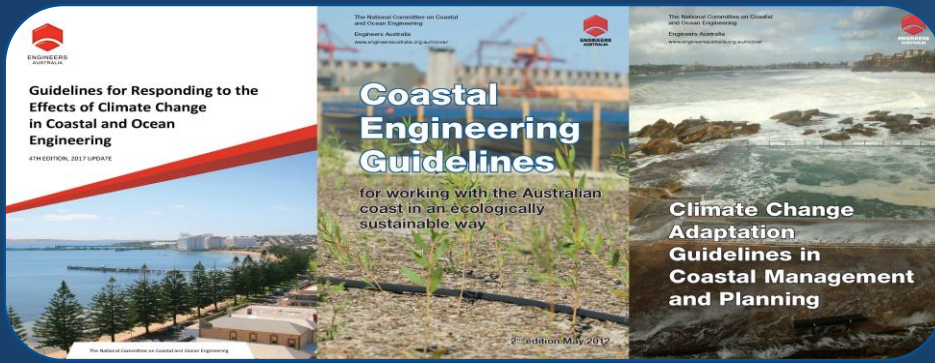
Add or change management criteria

GUIDANCE

Offers user support throughout the assessment

PRIORITISATION

Actions can be arranged following asset ranking



WHY IS THIS IMPORTANT FOR COUNCILS?

Coastal public infrastructure can be highly vulnerable to the impacts of climate change and receives huge amounts of funding every year for ongoing maintenance and refurbishment. Councils have highlighted the need for assistance in evaluating the condition and vulnerability of their coastal recreational infrastructure to help decide where and how to allocate funding. Further support is also desired in assessing the likely future maintenance and retro-fitting requirements to help management of these important assets.



The primary objective of the tool is to provide councils with a simple to use, rationally based, framework to assess the current condition and vulnerability of their recreational assets against current and future coastal hazards. This will allow councils to go from a National Disaster Assistance approach to incorporating the tool into Council's Integrated Planning and Reporting Framework (IPFR).



The tool was tested on over 10 recreational infrastructure assets in three different NSW coastal councils to assess their value, affordability and sustainability and the amenity they provide. This process was also used to help calibrate and refine the tool in preparation for public release throughout NSW.



The tool is designed to assist with the managing of recreational assets such as:



- ✓ Jetties
- ✓ Ocean Pools
- ✓ Wharves
- ✓ Beaches
- ✓ Parks
- ✓ Boat Ramps
- ✓ Pathways
- ...and more!

HOW WILL IT BE DELIVERED?

The APCRICC tool is accessible to all Coastal Councils in NSW via a secure excel spreadsheet.

For more information please contact info@sydneycoastalcouncils.com.au



This project was assisted by the NSW Government and supported by Local Government NSW via the Building Resilience to Climate Change program