



Clarity from complexity

Climate risk management

Consulting services



The company

BMT and climate risk management



BMT is a leading international multi-disciplinary engineering, science and technology consultancy offering a broad range of services, particularly in the energy, environment, shipping, ports and logistics and defence sectors. Clients are served by professionals located in a network of international subsidiary companies in over 30 offices and across 5 continents.

BMT has a third party accredited Integrated Management System, which includes Quality Assurance (AS/NZS ISO 9001), Environment Management (AS/NZS ISO 14001) and Safety (AS/NZS 4801; OHSAS 18001).

BMT by the numbers

30+ BMT office locations	<small>early</small> 1900's BMT beginnings
1st, 2nd & 3rd Pass Climate risk assessments	100+ Natural hazard and climate studies
1500 Employees worldwide	x3 Triple bottom line solutions

BMT has a long history working with public and private sector organisations on natural hazard issues and has many trust-based partnerships. We are committed to helping our clients to build their capacity in understanding and responding to the emerging threats from climate change.

Engaging BMT provides our clients access to:

1. Our staff who have an expert understanding of climate science and extreme weather risks and are continually pioneering ways to do things better for our clients and to improve the quality, timeliness and cost-effectiveness of the services that we provide.
2. Our ability to seamlessly integrate different discipline focuses (across engineering and environment) within projects to provide holistic assessments of climate risks and solutions across built, natural and social assets.
3. Our ability to communicate and translate complex scientific, modelling and engineering studies into mainstream planning and decision making including extensive experience in community and stakeholder engagement.
4. Our strong links to cutting-edge research groups and organisations in the climate science and management field.

Our capabilities in climate risk management



Climate change risk assessments

Climate change is a significant concern for governments of all levels throughout the world, and increasingly for business and industry. There are potentially significant consequences for assets and operations that can arise because of climate change which need to be considered and managed in the short term help minimise future cost. However, there are also opportunities for those organisations and firms that are the best prepared.

BMT has extensive experience in the development and application of risk assessment processes and risk evaluation consistent with ISO 31000 for climate change and natural hazards.

BMT uses a 3-tier risk assessment approach to support organisations understand and manage climate change risk. This involves 1st pass assessments for building awareness to climate change impacts, 2nd pass assessments to quantify and better define climate risks and 3rd pass detailed assessments, often using our suite of in-house numerical models such as TUFLOW (www.tuflow.com).

Our multidisciplinary staff and strategic relationships with expert planners and economic specialists enable us to cover all bases.

Climate resilience and adaptation planning

While reducing emissions is essential, climate change is still happening and will continue into the future, leading to changes to where and how we live, work and play. Under this scenario, building resilience to climate change and adaptation are the only practical solutions.

BMT works closely with its clients to identify climate challenges and find short, medium and longer-term solutions. We keep abreast of best practice globally as well as local regulatory frameworks and government policy to ensure that we can propose options and solutions for our clients that are practical and relevant to their core business. In addition to preparation of climate change strategies, policies and plans we also can undertake:

- Climate change and natural hazard impact assessments
- Engineering/resilience assessments of built infrastructure
- Coastal management plans
- Floodplain and catchment management plans
- Stormwater and wetland management plans

Climate change research and development

BMT has a strong history of undertaking in-house research and collaborating with universities and government science agencies. More recently we have focussed on developing climate adaptation frameworks, tools and guidance. We have also developed approaches for habitat restoration.

The BMT global innovation program enables our staff to contribute to solving emerging issues and developing products and services to help BMT to service clients needs more effectively in an everchanging world.

Current research projects include:

- Climate change and wetland adaptation planning (in collaboration with Charles Sturt University, Griffith University and others).
- Stabilising coral reefs for coral reestablishment after cyclones (in collaboration with University of Queensland).
- Building the business case for climate change adaptation: lessons from coastal Australia (in collaboration with Griffith University and James Cook University).
- Linking climate change risk assessments and economic modelling (in collaboration with Aither).

Training and capacity building

BMT's expertise and experience in climate change risk management and adaptation is widely recognised. Accordingly, BMT is often engaged to develop and deliver guidelines, case studies and training courses to build capacity in climate change adaptation. We also regularly present guest lectures at Universities and for professional associations.

Some examples of our work can be found on www.bmt.org as well as the information portals of partner organisations like NCCARF's CoastAdapt information portal (www.coastadapt.com).

Relevant projects in climate risk management

Projects with Government

BMT has significant and wide-ranging experience working for government entities in assessing current and future hazards associated with coastal and estuary inundation and social, biological and physical responses to those hazards. We also work closely with these public sector clients to understand risk, assess options and develop plans.

Examples of recent and ongoing work includes:

Queensland

- Gold Coast Waterways Resilience Strategy.
- Noosa Council Coastal Hazard Adaptation Strategy (with Ethos Urban and Aither).
- Livingstone Council Coastal Hazard Adaptation Strategy (with Ethos Urban and Aither).
- Cairns Regional Council Coastal Hazard Adaptation Strategy (with Ethos Urban and Aither).

New South Wales

- Threat and Risk Assessment for the New South Wales Marine Estate.
- Sydney Harbour Coastal Management Program.
- Kempsey Shire Coastal Management Program.
- Cooks River Coastal Management Program.

Victoria

- Lakes Entrance Coastal Hazard and Climate Change project (with Ethos Urban).
- Climate Risk Assessment and Response Plans for Department of Justice and Regulation Facilities for the Victorian Government.

Northern Territory

- Climate change risk assessment of Kakadu World Heritage Area.

Tasmania

- Coastal Hazards Management for Existing Settlements and Values for the Tasmanian Government.



Projects with business and industry

With a growing emphasis on the financial reporting of climate risks (<https://www.fsb-tcfd.org/>), it is imperative that firms understand their exposure such that future risks to the business can be minimised and returns to shareholders maximised.

BMT has experience working across a broad range of industry and business sectors in climate risk management including transport infrastructure, finance, health, mining and resources, defence and small business.

Climate change is also an integral consideration when considering sustainability, particularly when focussing on the need to reduce carbon emissions while acting to adapt to a changing climate.

BMT is able to support organisations to assess their business practices and plans and make changes that help them to achieve long term sustainable practices including supporting organisations with applying for and achieving ratings such as green star, ISCA, BCorp and NABERS.

Recent projects with business and industry include:

- Climate impact assessments for major transport infrastructure projects including airport, seaport and road expansion projects.
- Guidelines for Climate Change Risk and Adaptation for Coastal Transport Infrastructure (with NCCARF).
- Risk assessment for the horticulture sector in the Bowen Region (with GrowCom).
- First pass risk assessment for the Darling Downs Hospital and Health Service.
- Development of Queensland State Adaptation Plans for the Health and Wellbeing sector (with NCCARF and CAHA) and the Emergency Management Sector (with NCCARF).
- Risk assessment for North Queensland Airports.
- Risk assessment for Summerland Credit Union.
- Risk assessment for the Torres Straits health sector.
- Developing climate change adaptation guidelines for small businesses and households (with NCCARF).

International projects

BMT also applies its experience and skills in climate change risk and management globally. As with all our projects, we work closely with government clients in other jurisdictions to ensure that we deliver outcomes that address their local needs, including building capacity to understand and respond to climate risks. Recent international projects include:

- Ecosystem-based adaptation to Climate Change – Solomon Islands.
- Choiseul Bay Township, Solomon Islands, Scoping Study for Climate Change Adaptation.
- Tonga Sea Level Rise Inundation and Erosion Risk Assessment.
- Integrated Climate Change Risk and Adaptation Assessment to inform settlement planning in Choiseul Bay, Solomon Islands.
- PNG Sustainable Development Program Riverine Social Impact Assessment.
- Climate Change Resilient Infrastructure, Professional Development Program (for Bangladesh Road Engineers and Managers – with NCCARF).



BMT has a proven record in addressing today's engineering and environmental issues.

Our dedication to developing innovative approaches and solutions enhances our ability to meet our client's most challenging needs.



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