

CLIMATE CHANGE RISK ASSESSMENT AND DECARBONISATION

MARKET SECTORS



Property



Transport & Logistics



Electricity &
Renewables



Resource



Government



Agriculture

WHAT CAN EPIC DO?

Epic Environmental has unparalleled experience providing climate change services to our clients. Epic has seen the demand increase for this service area in recent times, which is driven by Australia's commitment to the Long-Term Emissions Reduction Plan to achieve net zero emissions by 2050. Demand has also been led by the increased awareness that climate change hazards could pose a significant risk to our client's business and longevity and the natural environment.

Epic has the demonstrated experience in decarbonisation planning and climate change risk assessment to support our clients in their response to climate change.

CLIMATE CHANGE RISK

ASSESSMENTS

Climate change risk assessments look at future climate scenario models and the potential risks and consequences that may arise to the built and natural environment. To support the delivery of climate change risk assessments, Epic has developed a set of tools that allow our clients to easily understand climate change risks to their operations and have developed strategies for integrating recommendations for adaptation and mitigation within our client's business operations.

We bring a strong knowledge of the government's climate modelling and deliver our projects in line with the *ISO 14091:2021 Adaptation to climate change — Guidelines on vulnerability, impacts and risk assessment*.

DECARBONISATION

To support our clients with the world's transition to net zero emissions by reducing carbon emissions, Epic has experience in decarbonisation planning to deliver projects that are cleaner and satisfy government legislative requirements and policy. We have developed a decarbonisation framework for our clients, working closely with projects to explore opportunities for decarbonisation, facilitating processes to baseline carbon footprints and offering strategies in the areas of energy efficiency, behavioural changes, electrification, renewables, waste reduction, carbon capture and storage and carbon offsetting.



OUR EXPERIENCE

- **Infrastructure Asset Vulnerability Climate Change Assessment - Gladstone Area Water Board, Gladstone, Queensland**
Prepared a climate change risk assessment looking at the vulnerability of water infrastructure assets to climate change hazards at near and far future timescales based on a high emissions scenario. Included workshops and engagement with key stakeholders. Developed adaptation recommendations to inform the client's Adaptation Plan.
- **Environmental Impact Statement (EIS) for resource projects in Central Highlands and Richmond Shire - Confidential Client, Queensland**
Prepared decarbonisation plans and completed climate change risk assessments to support the EIS approvals, including greenhouse gas inventory, developing management measures in emissions reduction and carbon offsetting and assessed the project's vulnerability to projected climate change and developed adaptation strategies.
- **Valeria Coal Mine EIS— Glencore, Capella, Queensland**
Supported the client in aspects related to climate change and decarbonisation for the project's Terms of Reference stage of the EIS.