



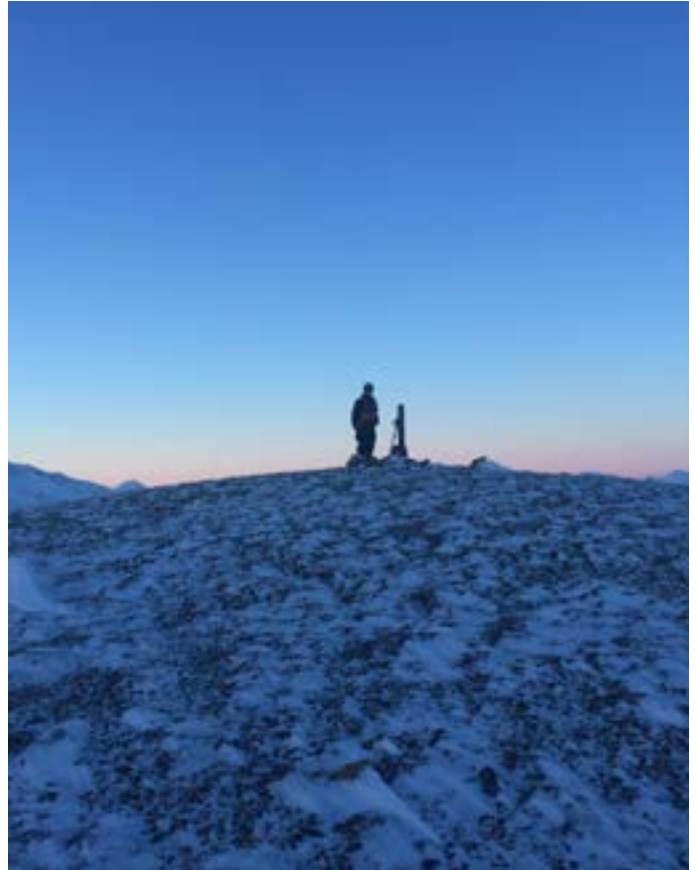
Climate change services

Delivering innovative climate change solutions for a greener economy and resilient planet.



Innovative strategies and solutions

Tackling climate change and reducing greenhouse gas emissions have become top priorities for organisations and citizens around the world. But what are the implications for you and your organisation? How can you responsibly meet your organisation's growing commitments?



Our climate change experts are scientific and technical thought leaders who can help you navigate your climate change responsibilities and priorities. We couple responsible project development with innovative solutions that help our clients meet and exceed stakeholder expectations.

We can help you with the following, whether as stand-alone activities or as part of a comprehensive climate action plan:

- Define your climate change strategy
- Assess your risks and opportunities
- Identify your priorities
- Measure and report on emissions
- Set meaningful, science-based reduction targets.

We can show you how to incorporate new technology while using natural capital to mitigate the impacts of climate change. And we can help you devise new approaches for adapting your organisation and its operations to a carbon-constrained world.



Reducing the impacts of climate change

Our experts can help you develop a strategy that meets market and investor expectations and complies with today's rapidly changing climate policy and legislation.

Our innovative engineering and environmental designs do more than just advance projects. They help reduce greenhouse gas (GHG) emissions, enabling you to thrive in today's green economy. Our interdisciplinary teams work together to collect data, develop technically sound strategies and report on results, enabling you to share your progress on reducing emissions and meeting non-GHG air quality targets.

Every project is unique, but we have learned from experience how to design cost-effective and meaningful solutions built on best practices. We carefully assemble specialised multi-disciplinary teams of respected professionals with recognised expertise in environmental sciences, social sciences, engineering and sustainability. Our clients benefit from Hemmera's climate change expertise combined with Ausenco's value-added engineering solutions. Together we offer a full complement of climate change services and innovative ideas to help you manage your climate change challenges and opportunities. We can incorporate a variety of data and tools in our analysis, including Traditional Ecological Knowledge, leading risk management techniques, international standards and the latest climate change science and models.

Key climate change services:

- Climate strategy and risk assessments
- Greenhouse gas mitigation assessments
- Climate change resilience assessments
- Climate change adaptation planning
- Environmental, social and governance (ESG) strategy development and reporting
- Policy review and planning
- Sea level rise assessment and planning
- Carbon offset management.

Climate services

Climate strategy and risk assessments

Investors, lenders, insurers, regulators and customers expect companies to meet their expectations on climate change strategy, risk mitigation, emissions reductions and adaptation planning. We use leading assessment frameworks to help you navigate climate change risk. These include the scenario analysis recommendations of the Task Force on Climate Disclosure (TCFD), GHG and mitigation planning criteria from the International Finance Corporation's (IFC) Performance Standards on Environment and Social Sustainability, and the Climate Lens Assessment Framework developed by Infrastructure Canada.

Our qualified professionals are experienced in GHG quantification and climate risk assessments, enabling us to complete climate change GHG mitigation and resilience assessments to International Standards Organisation (ISO) standards.

Greenhouse gas mitigation assessments

Does your organisation face GHG reporting responsibilities? In many countries, facilities exceeding set emissions thresholds for tonnes of carbon dioxide equivalent (CO₂e) per year must now report on emissions. The data collected under these programs help countries fulfil their obligations under the United Nations Framework Convention on Climate Change (UNFCCC).

Our teams are experts in GHG quantification and mitigation assessments. We use leading guidance such as the GHG Protocol and the ISO climate change standards to help our clients identify significant sources of GHGs and devise mitigation strategies. Our specialists have experience completing CO₂e emission estimates for projects in all sectors. We can also show you how to calculate

GHG emissions by assessing general stationary combustion sources and onsite mobile transportation sources, combine fuel usage records with other methods to estimate GHG released from fuel combustion, and compare accounting results to relevant government programs to determine regulatory reporting requirements. Tracking your organisation's GHG emission estimates will contribute to measuring and reporting on this key corporate sustainability performance category.

Climate change resilience assessments

We have completed climate change resilience assessments for multiple projects, ranging from northern landfills to mine operations to coastal transportation infrastructure projects. Our approach is to evaluate the potential effects of climate change on a project, then work with your team to recommend resilience measures to mitigate the identified risks. Our strong understanding of climate hazards and their impacts on infrastructure, human wellbeing and the environment helps ensure your projects are resilient to future climate change impacts. Depending on funding or project needs, we can complete resilience assessments independently or in concert with a GHG mitigation assessment.

Climate change adaptation planning

Climate change adaptation planning is essential to reducing the unavoidable effects of climate change. Our approach includes identifying the local risks and applying systems thinking to develop plans for managing these risks. The adaptation plans or actions we put in place today reduce the longer-term costs of the uncertainties of tomorrow. The goal of adaptation planning is to reduce the vulnerabilities caused by climate change and make our communities, businesses and societies more resilient. Adaptation



Climate services

planning is multifaceted, diverse and situation dependent and requires multidimensional solutions and approaches. Let our experts help you devise new adaptive management solutions to adapt to the effects of climate change.

ESG strategy and reporting

Our climate change services are directly linked to our sustainability services, just as responsibilities for climate change and sustainability are intertwined in many organisations. Our broad perspective enables us to simultaneously consider other important ESG risk/performance responsibilities and decisions as part of our climate change service package. We develop ESG and sustainability strategies and plans and provide related stakeholder engagement, communications and reporting services. We can benchmark your approach to greenhouse management, comparing your results against leading standards and emissions results of other companies.

Policy review and planning

Our experts have a deep understanding of the public policy and regulatory landscape surrounding climate change issues. They can develop position papers and regulatory submissions on issues ranging from carbon pricing to adaptation, as well as the assessment of energy markets, global GHG management trends and flagging technology and funding opportunities. We use evidence-based analysis to assess the effects of government policy and legislation on industries and individual company operations, investment decisions and competitiveness. This analysis can be used to advocate internally and to government to help shape strategic and practical approaches to greenhouse gas management.

Sea level rise assessments and planning

Sea level rise and its impact on coastal communities and infrastructure are extensive and far reaching. Our coastal engineering team has many years of experience analysing water levels and meteorological and oceanographic data and assessing the likelihood of and risks associated with sea level rise. This information is then used to identify areas that may be at risk and assess potential mitigation strategies. We can devise temporary and medium-term engineering solutions to prevent flooding; conduct initial assessments or complete detailed designs and tender documentation; as well as supervise construction crews and manage the implementation of engineered mitigation measures. Our team also specialises in coastal zone management, incorporating the impacts of sea level rise in management planning.

Carbon offset management

Carbon offsets are used to compensate for an organisation's inability to reduce emissions directly and assist in reaching carbon neutrality. They are the last option in the carbon management hierarchy and require careful consideration. In addition to guiding you through the process of carbon offsetting, accounting and management, our experts can help you assess and reduce your carbon footprint, devise emission reduction strategies such as investing in clean energy or natural assets and report on emissions and reduction plans to help you remain both transparent and compliant.





Finding a better way, every day.

With offices throughout North America, South America and Australia Pacific, we can support your project wherever it is located.

For more information, visit our website at www.ausenco.com



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