




Capability statement

2024



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About Xenith

Xenith is an Australian consulting firm servicing industry sectors that sustain for global growth. From energy to critical minerals and metals to bio futures and decarbonisation, we work with our clients to create a better future for all stakeholders.

We deliver this through:

- > **Know-how**
- > **Clarity**
- > **Potential**
- > **Energy**

Who we are

Since 2005, Xenith has built a solid reputation as the resource industry's preferred delivery partner for reliable and innovative solutions that provide lasting value for clients and communities.

Working across every continent of the globe, Xenith delivers strategic, leading-edge expertise in critical resources sub-sectors including:

-  Energy
-  Critical minerals and metals
-  Metallurgical coal
-  Decarbonisation
-  Infrastructure
-  Bio futures

Technical excellence is delivered through consulting and advisory services expertise and capabilities which extend across exploration, resource modelling, mine planning and optimisation, environment and land access, project approvals, operations improvement, finance, and technology.

Xenith also offers in-depth technical expertise in:

- > **Land access, leading negotiations, audits and reviews for native title agreements, cultural heritage processes, stakeholder and community engagements**
- > **Environmental, approvals planning services including Environmental Impact Studies, approval audit and reviews**
- > **Nature-based solutions, bio futures and carbon projects design**

Xenith's Corporate Advisory division provides independent valuations, expert witness, investment evaluations, technical audits, due diligence, independent technical reports, strategic and operational reviews and financial modelling services.

We strive to make a positive impact on the community by achieving a prosperous, engaged and environmentally sustainable society.

Our history

Xenith was founded in Brisbane, Australia in 2005 with a vision to offer expert technical and operational optimisation advisory services.

By 2009, Xenith had grown to employ 20 professionals, working mostly at that stage with Queensland coal clients and on numerous coal projects in Indonesia.

The Sydney office opened in 2010 and a further 10 employees were welcomed into the Xenith fold over the next few years in NSW. In 2012, capabilities began branching out to include exploration and field project support services. The Hunter Valley office opening shortly thereafter in 2013, adding another 10 employees in quick succession.

In 2015, Xenith expanded its service offering beyond coal to include manganese, iron ore, gold and mineral sands. By 2017, Xenith had reached a significant 50-employee milestone.

In 2018, Xenith was named Australia's Mining Monthly magazine Mining Consultant of the Year, in recognition of the quality of the fully integrated, multi-disciplinary service offering.

In recent years, Xenith has embarked upon a phase of growth, renewal and targeted diversification. It has enhanced its environmental, social and governance (ESG) consulting capabilities and focus on the critical minerals and metals sub-sector in response to the evolution of industry and with it, its heightened awareness of societal expectations.

Key strategic milestones in this phase for Xenith have included two mergers with respected environmental planning consultancies Spinifex in 2021 and James Bailey & Associates in 2022. Xenith has also established a strategic alliance with Carbon Logica, a private provider of carbon abatement services to the mining industry.

Xenith has earned a reputation for trusted, reliable and highly sought-after advice, services and skills in geology, mine planning, exploration, business operations and analysis, resource evaluation, governance, risk and investment decision-making.

As the company's 20th year of operations approaches in 2025, Xenith will continue to innovate, grow and adapt to ensure positive, future-ready outcomes for clients.



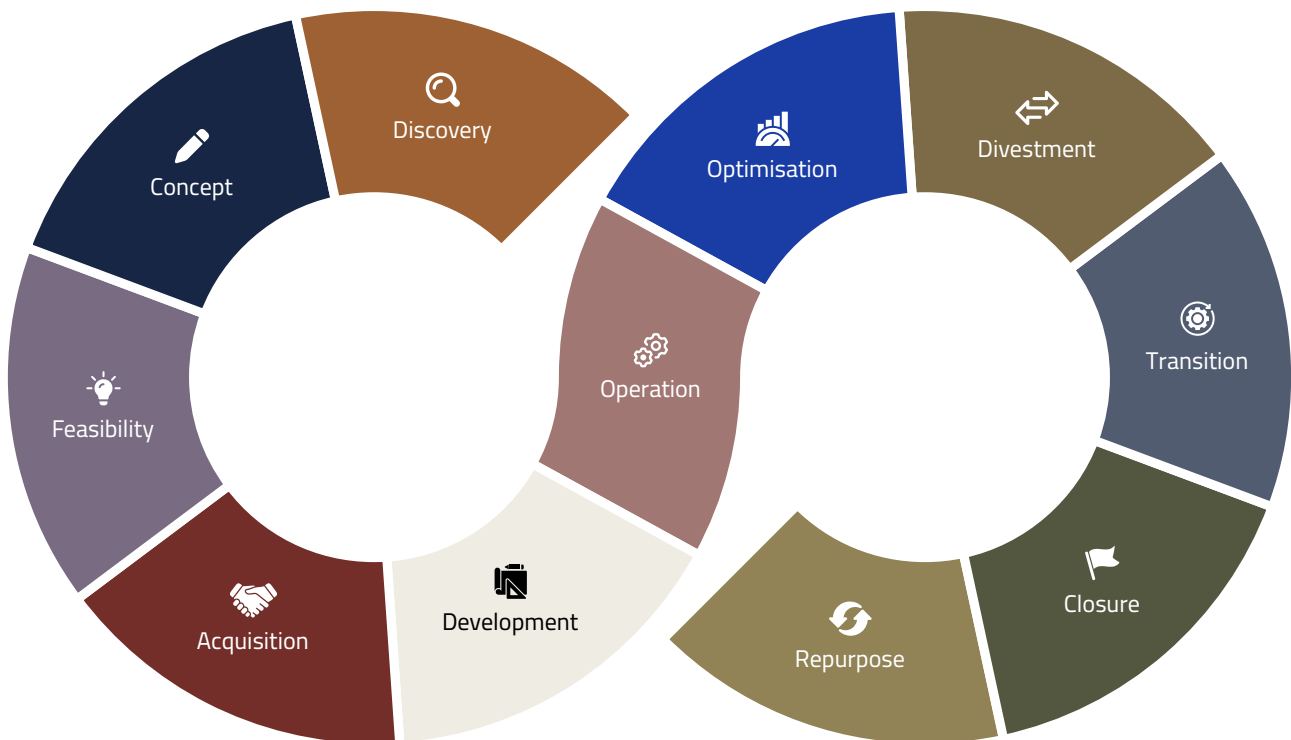
What we do

The future of our work. From ideation to transformation.

Xenith is fully capable and trusted to support projects at every stage and clients at every phase of the asset lifecycle.

Our vast multi-disciplinary expertise, matched with our integrated service offering, allows us to seamlessly accommodate individual client needs at any stage – discovery or end of life, basic or complex, short or long-term, business partner or strategic advisor.

Xenith knows the way. We can guide you through:



At Xenith, we work with our clients to create a better tomorrow for all stakeholders

Xenith has refreshed and reshaped its business model. Through this, Xenith has broadened its client service offering and has increased capability and expertise sustainability and ESG compliance to ensure Xenith remains at the forefront of our industry and continue to be the trusted advisor to our clients as their requirements evolve.

We have employed expertise and knowhow, including ESG and decarbonisation specialists, with the direct intention of expanding our consulting capability to become as an ESG advisor-of-choice to the resources industry, providing the link between operations, data and reporting.

Xenith is now well positioned to help clients navigate the transition towards carbon reduction by providing access to cutting-edge ESG knowledge and industry forecasts, international carbon market opportunities and practical, timely and strategic advice on climate risk management and ESG compliance.

Why it's important to our organisation

Our services are seamlessly integrated with ESG, digital and regulatory compliance capability embedded across our business.

We strive to make a positive impact on the community by achieving a prosperous, engaged and environmentally sustainable society.



Environmental

- > Responsible environmental citizenship
- > Commitment to the energy transition
- > Reducing carbon emissions
- > Beneficial land use



Governance

- > Sustainable global investment
- > Transparency, leadership and accountability in decision making
- > Organisational resilience in the face of escalating transition risks
- > Enterprise risk management



Social

- > Meaningful community engagement
- > Supply chains which observe basic human rights
- > Measurement and management of social impacts
- > Diversity and inclusion

Know the way

Our process: Since 2005, our clients have chosen us because we continue to generate and deliver outstanding outcomes that contribute to their success.

This is why:

- > **We are focused on delivering ongoing value to our clients and their operations**
- > **We know our stuff and we are willing to share our experience, ideas and expertise**
- > **We are principled and conscientious partners who act with genuine integrity**
- > **We are pragmatic, realistic and considered. We're also approachable and supremely adaptable**
- > **We work with energy, responsiveness and dynamism because we are invested in our clients and their aspirations for their business**
- > **We aren't afraid to talk tough or deliver honest, evidence-based advice – even if it's unpopular**
- > **We take ownership of problems to ensure the solutions we provide are tailored to the needs of our clients**
- > **We work with our clients to create a better future for all stakeholders**



Our expertise

Our team

Xenith's power is in our people. Experienced, strategic, forward focused With teams across four key locations – Brisbane, Sydney, the Hunter Valley and Perth – our collective depth of knowledge ensures we deliver full and robust solutions spanning concept to completion.

Our teams both specialise in and collaborate across planning, exploration, resources and mining, infrastructure, environment and rehabilitation, ESG, land access and approvals and more.

Our valuable, evidence-based insights provide the confidence to collaborate on the path forward for your investment or project.

When there is value to be realised, we show the way. Together, we succeed.

Team capabilities

Xenith has a world-class team of highly qualified and skilled experts in geology, engineering, project management, business operations and analysis, ESG, finance, bio futures, stakeholder engagement, land access, cultural heritage, native title and environmental approvals.

Xenith is also at the cutting edge of world-class mining technology. We are committed to innovation and providing our clients with up-to-date data, modelling and real-time learning utilising a range of software solutions.

Learn more about Xenith's [Directors and Managers](#) and [our team](#).

Areas of expertise

Technical excellence and operational improvement

We utilise our broad technical skills to develop executable and value accretive business plans, with a level of rigour that ensures total alignment with recognised codes and standards for our clients.

- > Data mining and validation
- > Geological modelling and resource definition
- > Concept, pre-feasibility and feasibility studies
- > Mining method design and optimisation
- > Equipment selection and benchmarking
- > Short term planning and site support
- > JORC resource and reserve estimations
- > Operational and cost improvement
- > Operational benchmarking
- > Financial modelling
- > Business analysis

ESG solutions

We take up the challenge with our clients to navigate their ESG strategy and compliance activities during a highly complex transition to a globally sustainable future.

- > ESG strategy advice
- > ESG regulatory advice
- > Climate risk assessment
- > Carbon credit models
- > Carbon credit generation (domestic and international)
- > TCFD, ISSB, sustainability standards advice
- > Emissions reduction fund advisory and registration
- > Decarbonisation strategy and advice
- > NGER / safeguard mechanism assistance and advice
- > Digital solutions

Land access and project development

We provide timely access to land, sea and air in compliance with relevant legislation and in a respectful way for all stakeholders, so our clients can explore and develop their assets.

- > **Native title**
- > **Cultural heritage**
- > **Archaeological surveys**
- > **Stakeholder engagement**
- > **Exploration program design and management**
- > **Deposit characterisation**
- > **GIS and satellite mapping**
- > **Renewable energy facilities**

Environment and approvals

We assist our clients to ensure that the environment is protected during construction and production, and that transformation of their assets after closure provide benefits for future generations.

- > **Regulatory approvals advice**
- > **Environmental impact statements**
- > **Operating plans**
- > **Project construction advice**
- > **Approval risk assessment and management**
- > **Progressive rehabilitation and closure plans**
- > **Repurposing of industrial land**
- > **Post-approval management plans**
- > **Biodiversity offset strategies**

Corporate advisory

We leverage the global breadth of our experience, insight, and networks to simplify our clients' complex problems to ensure fully informed decisions can be made with confidence.

- > **Independent technical reports**
- > **Strategic and operational reviews**
- > **Valuation reports**
- > **Final investment decision**
- > **Owners representation**
- > **Life of mine optimisation**
- > **Expert witness**
- > **Regulatory engagement**

Due diligence

We are trusted by our clients to provide honest and independent opinions based on science and engineering, finely-honed commercial acumen and detailed market knowledge that is concisely reported.

- > **Independent**
- > **Full-Width**
- > **Financial**
- > **Approvals**
- > **Technical**
- > **ESG**
- > **Bankable**



Global footprint

Our projects

From Queensland to Quebec, Mongolia to Moranbah, Xenith has completed more than 1,000 consulting projects in the past 15 years. We are proud to have worked with a diverse range of clients across every continent on the globe, representing resources, energy, infrastructure, government and the environment.



Project Type

-  Xenith Projects
-  Global Experience

Project spotlight

Winchelsea Island Manganese Project

Exploration, concept and feasibility

Project overview

Our team was initially engaged to undertake a resource estimate, in accordance with the JORC Code, for Winchelsea Mining's Winchelsea Island Manganese Project – a small-scale mining operation located on Winchelsea (Akwamburrkba) Island on the western side of the Gulf of Carpentaria in the Northern Territory.

Following this initial engagement Xenith managed further exploration work on the Island, completed a Concept Study and then a Feasibility Study for the project.

The full scope of work carried out included a risk assessment, exploration, and extensive civil engineering work – all integrating with ore processing and shipping/transport logistics. Capital and operating cost estimates were also developed.

Project objective

The core vision of the project was to raise enough free cashflow to permanently support the economic sustainability and social future of all Anindilyakwa speaking clans of the Groote Archipelago.

Key solutions developed

A three-day project risk assessment where 22 representatives addressed areas of the project relevant to their expertise. Of the 155 risks identified, four were recognised as high risk and had recommended controls identified that would mitigate the risk.

An economic analysis of the project was also undertaken which saw the project's sensitivity to various factors including commodity price, foreign exchange rates (FX), capital cost and operating costs, assessed.

Outcome

The outcome of the study confirmed the project was technically viable. It demonstrated targeted export manganese ore product quantities and grades could be achieved based on the waste removal, ore mining, ore processing and associated support infrastructure and services, including product export facilities.

[↗ Read the complete case study on Winchelsea Island.](#)

[↗ See the latest news from Xenith.](#)



xenith

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