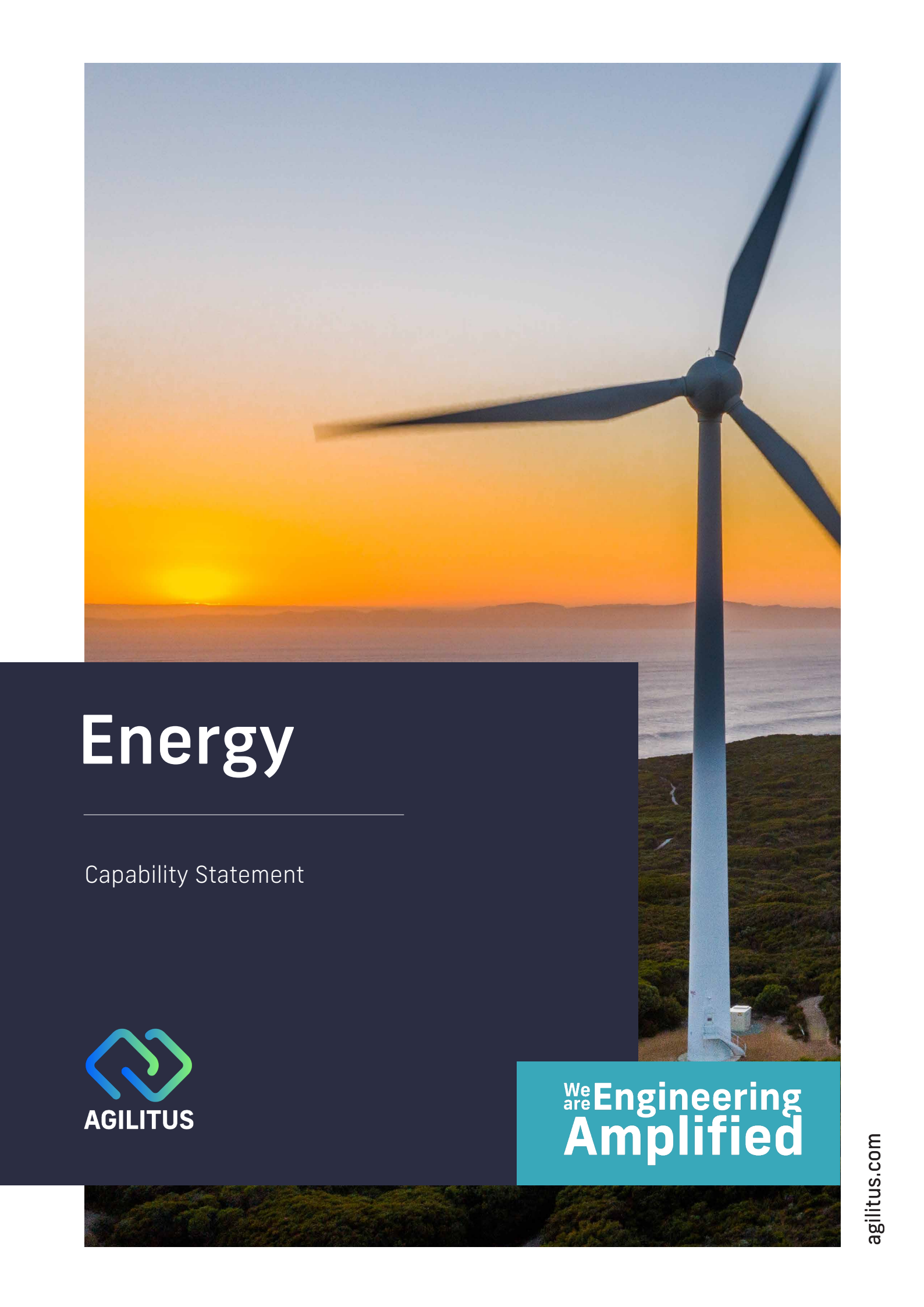


A large wind turbine stands on a grassy hill overlooking the ocean at sunset. The sky is a vibrant orange and yellow, with the sun low on the horizon. The turbine's blades are dark against the bright sky.

Energy

Capability Statement



We are **Engineering
Amplified**

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The **First Choice**
in **Engineering**

About Agilitus

Since 2017, we have expanded Australia-wide, delivering quality and reliable services in engineering, design, and project management across all disciplines and sectors.

Founded by colleagues Craig Bloxham (Managing Director) and Tony Comerford (Technical Director) after decades in the sector, their ethos of creating a business removed of staid bureaucratic processes still holds true today. It's this uncompromising philosophy that remains the hallmark of the business' true success.

"When you're one of thousands in a public listed company, it gets complicated, and Tony and I wanted to keep things simple. Complexity should not be in the management of the business, just the technical aspects of engineering. We wanted to focus on quality services and building a strong reputation of doing good work; the rest is history," said Craig.

With a vision to be the most sought-after global multidiscipline engineering business, attracting and employing the best people with like-minded values continues to be an important function of the business.

"To make it all work, you've got to have the right culture. If your team enjoy the work and the people they work with, this enthusiasm is hard to resist.

It's our distinction that no one can copy. Our clients value this in the way we work alongside them," said Tony.

“

We're known for our expertise and integrating solutions across all disciplines to deliver a quality product. It's about being consistently predictable, reliable and value for money.

”

Craig Bloxham - Managing Director

Agilitus at a glance



480+
Workforce
With high performance culture and low turnover



6 Offices
Across Australia, Perth HQ



250+
Years
Cumulative experience of the Management Team



180+
Clients in the Resources, Energy & Infrastructure Sectors



20+ MSA
Agreements across blue-chip customers



ZERO
Lost time to injury in the last 5 years

Multidiscipline services

Agilitus is a multidiscipline engineering, EPCM and ESG consultancy with a skilled, collaborative team delivering innovative solutions to the Resources, Energy & Industrial sectors.

Agilitus offers a range of services to meet any project's most stringent requirements across the entire lifecycle.

The team is focused on providing customised project design, engineering, EPCM, ESG advisory and rehabilitation capabilities with experience in mine site infrastructure and process plants, rail systems, bridges, haul roads, ports and marine, NPI facilities, energy, as well as power supply and distribution.

Agilitus has an in-depth understanding of the project lifecycle. This includes supporting clients through all stages of the project's delivery, from exploration to conceptual design and feasibility studies to detailed design, approvals, construction support and operations, rehabilitation and closure.

- Asset management
- Civil
- Coastal
- Critical and precious minerals
- Decarbonisation
- Desalination
- Design and technology
- Digital consulting
- Electrical
- Energy
- Gold
- Ground engineering
- Infrastructure
- Heavy haul rail
- HSEQ solutions
- Hydraulic mining
- Hydrology and water
- Mechanical
- Ports and marine
- Process
- Project delivery services (EPCM)
- Pumping and piping
- Stakeholder engagement
- Structural
- Tailings management, mine closures and rehabilitation



Craig Bloxham
Managing Director and Co-founder
30+ years' experience

We develop engineering solutions suitable for our client's purposes, rather than an engineering solution suitable for your business perspective in terms of managing that risk.



Tony Comerford
Technical Director and Co-founder
35+ years' experience

We're in the business of solving engineering challenges but it's more than that; it's the difference we can make for clients, our people and community. It's about delivering on our promises and always exploring better ways of finding solutions.



Tony Daniel
Chief Operations Officer
21+ years' experience

We combine exceptional technical expertise with practical, value-driven solutions for clients. This builds mutual respect and confidence in our solutions, knowing that we explore all avenues for the best fit solution for the project.



Gavin Wearne
Director – Ports and Marine
23+ years' experience

Success is being a trusted advisor for our clients, delivering successful projects, and being a great place to work. We have this here.



Jamie Little
Director – Commercial and Project Delivery
23+ years' experience

We do more than just value adding; we're actually strategically looking at the whole scenario, the big picture to deliver what clients need, not necessarily just what they asked for.



Matt Moreland
Director – Engineering
15+ years' experience

We don't do things just because that's the way they have always been done. We're not wedded to that thought process. We're always asking, what are you trying to achieve and what solution do you need.



Jason Fong
Director – Geotechnical
30+ years' experience

Agilitus has been built on finding innovative solutions, best fit solutions for problems that often a lot of our competitors haven't been able to solve.

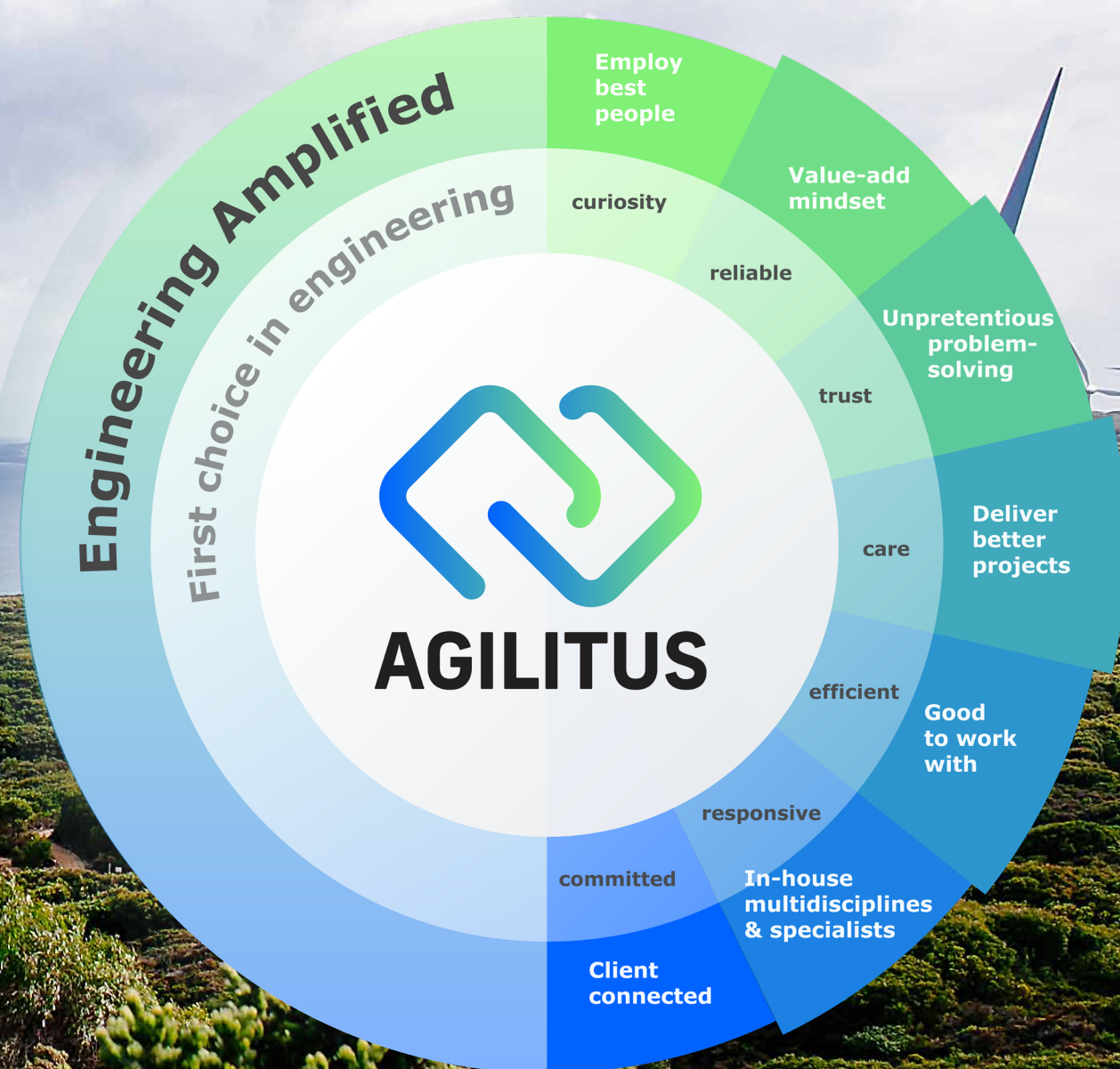


Niccole Jenkins
Director – Marketing and Business Development
30+ years' experience

Returning clients is the true indicator of our success. This represents a true commitment to solving complex problems and optimising solutions. It's who we are.



Our difference



People & culture

We create an environment where people thrive and are empowered, safe, and supported to innovate. **Our team genuinely enjoys the work and the people they work with, and that enthusiasm becomes a powerful force.** Clients feel it. It builds trust, momentum, and confidence.

100% employee owned

When our clients succeed, we succeed. **Being 100% employee-owned means, we're personally invested in delivering outstanding outcomes.** This ownership mindset shows up in the energy we bring, the pride we take, and the results we deliver.

Brownfields experts

We're a leading brownfields specialist, with most of our work delivered in live, operating environments. Our multidisciplinary in-house team, including highly valued specialist services, provides clients with a true end-to-end capability under one roof.

We don't just work in brownfields; we excel in it.

Best-fit solutions

We design best-fit solutions which integrate seamlessly into existing operations, reduce disruption, and mitigate risk. **Our proven methodologies allow us to move with precision and pace,** applying decades of practical experience to unlock smarter, safer, more cost-efficient outcomes.



Our energy team



Tony Comerford
Technical Director
35+ years' experience

Tony has extensive experience in technical engineering delivery, project, engineering, construction and commissioning management with a diverse background covering metals processing and refining, chemical plant, port facilities and industrial projects. His extensive experience covers the conceptual design, detailed design documentation, project management, construction management and commissioning of complex multidiscipline projects, both Greenfields and within operating plants as well as design office management and supervision of technical staff.

Tony has significant materials handling experience covering all types of materials handling, stockyard and port loading and unloading equipment and conveyance types, across a wide variety of raw materials, final products, concentrates, hard rock and large-scale iron ore projects. Tony is experienced in alternative project contract delivery models from both the client and contractor delivery sides and with other delivery methods including alliances for both sustaining capital and maintenance projects and programmes.



Rhys Ledger
General Manager, Project Delivery
19+ years' experience

Rhys has more than 19+ years of experience with a demonstrated history of working in the infrastructure, minerals, and energy industries. Rhys has extensive experience in both brownfields and greenfields engineering scopes and has been intimately involved in all phases of project implementation including study, engineering, procurement, construction, commissioning and operations phases.

Rhys has successfully led multidisciplinary EPCM teams and specialist consultants through technically challenging scopes, ensuring alignment with client objectives for safety, operability, schedule and cost. His ability to translate technical assurance into clear executive level guidance is a key strength and directly supports governance and leadership requirements Rhys has been involved in execution of projects, with a core role in the Engineering, Construction and Commissioning teams on the Mount Holland Lithium Concentrator which was executed as an EPC by Primero. Before Primero, Rhys was substantially involved the design, construction and commissioning of multiple brownfield projects for Woodside (including the Goodwyn BESS), Inpex Ichthys FPSO and Chevron Gorgon LNG Gas Project.



Tony Daniel
Regional Manager (WA)
21+ years' experience

Tony has 21+ years of design, project engineering and management experience both in the engineering office and field environments. Tony's roles have included a broad range of activities in both greenfield and brownfield contexts related to engineering, procurement and project management. He has undertaken field-based assignments that entail the management of multiple, concurrent sustaining capital and production improvement projects within operating facilities.

Tony's expertise includes project engineering, mining projects mechanical engineering design; materials handling/mining equipment and machinery. Tony has worked on various project sizes across all design and execution phases including several site secondments.



Matthew Moreland
Director Engineering
15+ years' experience

Matthew has 15+ years of experience working as a Mechanical Engineer, predominately within the mining, industrial and energy sectors. Extensive experience in mechanical design, operations, maintenance, repair and upgrade of complex utility and processing equipment. Projects work undertaken for clients including Acciona, BHP, EDL, APA, Rio Tinto, Alcoa and FMG; designing and constructing steam turbine packages, whole plant integration and constructability, processing equipment and compressed air and gas separation packages, with extensive utilisation of AS, ASME and ISO9001.



Stephen Brown
Technical Director - EIC
33+ years' experience

33 years of electrical engineering in power generation, mining and oil and gas sectors, in both design and operational support capacities.

Stephen has held technical leadership roles in mining, refinery, consulting, and was an Oil and Gas Technical Authority.

His key skills include power generation, transmission and HV distribution systems, electrical maintenance and operations support, brownfields project execution, hazardous area equipment selection and electrical Safety in Design.



Jules Bird
Energy Innovation Engineer
5+ years' experience

Jules has 5 years of experience in environmental and engineering consulting, with a unique blend of experiences in energy engineering, hydrogen storage, sustainability and decarbonisation, environmental science, cost estimating, and power systems. She is driven to utilise her unique background and broad scientific perspective to promote innovation in energy and sustainability.

Our energy team



Rob Mond
Head of Energy Delivery
19+ years' experience

Rob has extensive experience in the project management of energy and multidisciplinary engineering projects up to \$100M. He has successfully delivered projects in many roles in project management and design engineering across multiple industries. His experience in industrial automation and defence infrastructure projects has provided him with a broad knowledge of systems and processes to enable him to have a positive impact on project success. His technical, commercial, and practical capabilities have been utilised successfully in the delivery of multi-discipline projects through all phases of the project life cycle. Rob has significant experience in managing power station design and construction, fleet electrification and decarbonisation infrastructure engineering projects and has provided services to clients such as Fortescue, Rio Tinto, EDL, and Roy Hill.

He has a proven track record of making informed decisions and solving project problems quickly which have a positive impact on the time, cost and quality of his projects. These solutions are always based on the requirements of the project stakeholders and understand the impacts these have on project outcomes and success.



Luke Screaigh
Project Manager
10+ years' experience

Luke is a passionate and innovative Program Manager with 10 years' experience and has worked on a range of projects across Western Australia and Asia. Including projects for BHP, Rio Tinto, Talison Lithium, FMG, Galaxy Resources, Mineral Resources, Gold Fields Australia and KCGM. In this time he has developed a vast range of experience, including contract and commercial coordination roles, civil, structural, mechanical, and piping technical engineering roles, procurement roles and leadership roles. In his time in the industry with significant site experience, Luke has learnt the critical importance of safety and has a strong commitment to zero harm.



Leighton Brunn
Principal Electrical Engineer
40+ years' experience

40 years of experience in delivering projects for power station, mining and refinery industries. Leighton has held key positions in engineering projects responsible for feasibility studies, tendering, estimating, detailed design, off site testing (FAT), construction support on site and on site commissioning. His key skills include solar power generation, diesel and gas power generation, HV overhead lines and power distribution, switchyards and substations, transportable switchrooms, motor control centres and variable speed drives, LV and MV SEL protection, and PLC control and fibre optic communications.



Hossein Nikzaddahaji
Principal Electrical Engineer
20+ years' experience

Hossein has experience delivering power generation and energy infrastructure projects across oil & gas, utilities, and renewable sectors. Proven track record acting as electrical technical authority across multidisciplinary projects, supporting concept and feasibility studies through to FEED, detailed design, commissioning, and operations.

Deep expertise in thermal generation, renewable energy (solar), hybrid systems, and emerging energy transition technologies including BESS and distributed energy systems. Strong technical capability across HV/MV/LV systems, protection assessment, load flow study, short circuit analysis, relay coordination, and power system integration.

Recognised for building strong client and team relationships, leading collaborative engineering teams, and delivering practical, high-quality solutions in complex brownfield and greenfield environments.



Pezhman Dehkordi
Principal Mechanical Engineer
20+ years' experience

Pezhman has experience delivering major brownfield and greenfield projects across mineral refining, mining and processing, oil and gas, chemicals, water infrastructure, and industrial facilities. His experience spans concept and feasibility studies, FEED and detailed design through to procurement, construction, commissioning, and operational support.

He has led multidisciplinary teams and provided technical leadership across mechanical systems, piping design, stress analysis, hydraulic calculations, equipment layout, constructability, technical assurance, and vendor engagement. Pezhman brings a proven track record in developing practical engineering solutions, managing project interfaces, and supporting safe, cost-effective delivery across complex projects.

Playing a key role in the global energy transition

We are helping clients to minimise risks in system reliability and energy supply, while managing short and long term uncertainty in energy pricing, embracing new technologies and adhering to regulatory requirements.

Agilitus is a multidisciplinary engineering, design, project delivery and advisory consultancy, providing technical solutions for clients in the Resources, Energy and Industrial sectors.

With offices on the East and West coasts of Australia, we are majority owned by our employees and committed to helping clients decarbonise in a net zero economy.

Our fit-for-purpose engineering solutions enable mining and raw material proponents, energy and water utilities, and port authorities to optimise the performance their assets, minimise operational disruption, improve safety and mitigate risks.

Agilitus' proven approach to deliver schedule and cost benefits through clever engineering and true collaboration is what sets us apart.

Our people pride themselves on providing smart and sustainable solutions to complex engineering problems; and importantly, on being great people to work with.

Energy services

Providing exceptional engineering solutions for energy generation and supply that optimise value and help decarbonise operations.

Our Energy team's pragmatic approach enables us to reduce capital expenditure in both energy generation and supply while achieving an overall reduction in Levelised Cost of Energy.

We design solutions to minimise risk in system reliability and energy supply while managing both short and long term uncertainty in energy pricing, technology development and regulatory requirements.

Utilising Net Zero in Design (NZiD), we successfully navigate the rapidly evolving technology and regulatory landscape to provide a clear strategy to Net Zero.

From mining, industrial and energy – Agilitus delivers world-class engineering to assist clients in optimising the performance of assets, increase productivity, improve safety and create positive ESG outcomes.

As the Energy sector moves through an unprecedented level of change and development, Agilitus performs as a trusted partner to capitalise on the opportunities available while managing the ever increasing risks.

With a strong team containing a diverse range of skills and experience, we offer services throughout a project life cycle covering concept, pre-feasibility, feasibility, detailed design, delivery and construction management.

Capabilities advisory

- Energy resource & technology studies
- Risk management (technical, project and commercial)
- Market & commercial advisory (inc. ppa, boo & epc)
- Demand side management, energy efficiency & auditing
- Site identifications
- Network node analysis
- Life cycle assessments, decarbonisation and net zero strategies
- Regulatory advice for energy & CO₂e

Technology experience

- Solar PV, wind, H2, BESS, hydropower, biofuels, thermal, etc.
- Scaling from kVA to GVA and kWh to TWh

Engineering and design

- Grid connected and standalone power systems
- Remote area power, hybrid power & microgrid solutions
- Energy generation, storage, distribution & monitoring
- Electrification, energy transition & technology integration
- CEC accredited design & installation of grid connected & standalone power systems
- Network connections & transmission studies

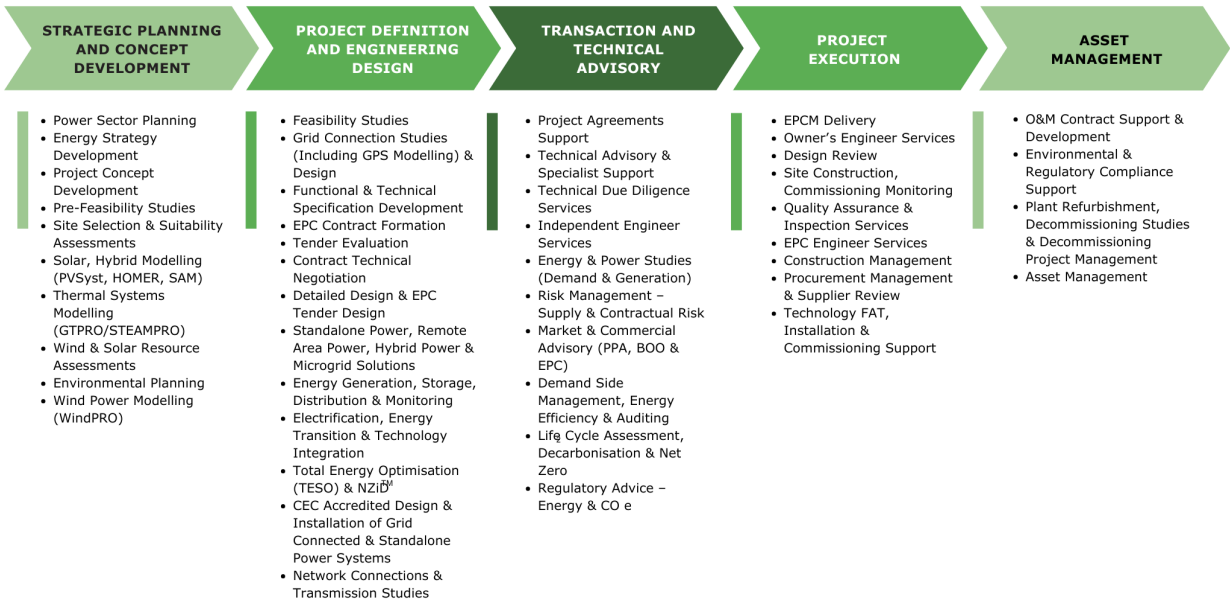
Delivery

- Procurement management & supplier review
- Technology FAT, installation & commissioning support
- Construction management
- Owner's engineer services

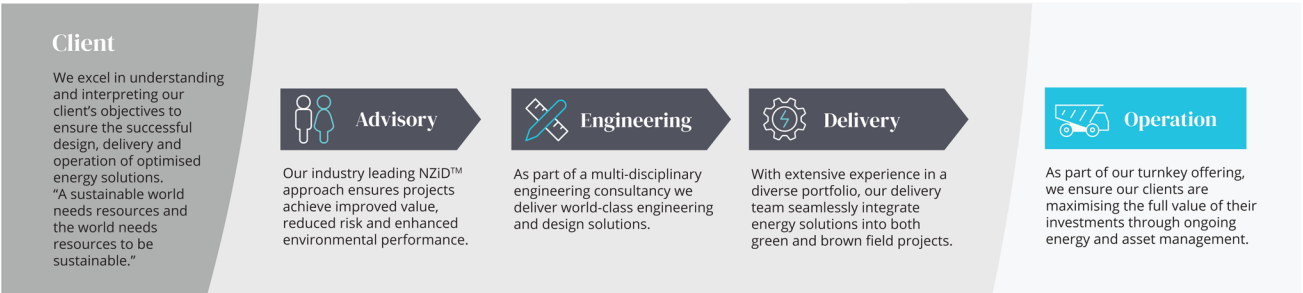


Project services

The complete life cycle



Project coverage



Mining and Resources



We take pride in working collaboratively with our clients to manage the complexities of their projects, technologies, and energy needs.

Processing and Manufacturing



With our focus on technology integration and ability to value-add to all stages, we de-risk project delivery for our clients.

Infrastructure and Services



By understanding the full project lifecycle, we provide predictability to even the most innovative and challenging jobs.

Specialist skill sets

Dedicated to offering practical advice that empowers our clients with confidence in finding the right solutions.

We are experts in driving meaningful change in the growing energy sector. Our depth of knowledge allows us to provide tailored guidance, helping clients navigate the complex energy landscape with confidence. We are dedicated to empowering our clients through a journey of discovery.

Energy capabilities

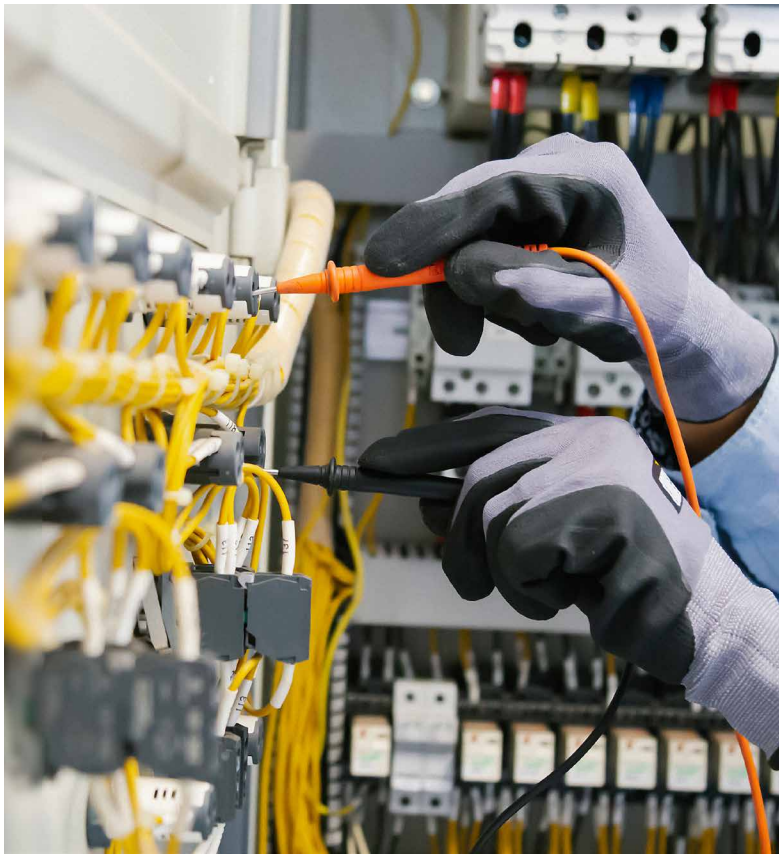
- Risk Management (Technical, Project and Commercial)
- Renewable generation site location studies
- Renewable generation resource assessment
- Electricity network access and constraint assessment
- Technical due diligence reviews and reporting
- Analytics, data and quality evaluation
- Engineering project management
- Construction engineering
- Transport planning
- Testing of wind turbines, battery and storage
- Power systems
- Safety, risk and reliability planning

Renewable generation site location studies

- Site selection and suitability assessments
- Multi-criteria / trade-off location studies
- Land access and stakeholder engagement
- Site access and route planning
- Civil, hydrology, and geotechnical (including noninvasive) site location studies.
- Bulk earthwork cost estimation for solar pv, wind farms, and BESS
- Cost and capacity assessments for transmission and Interconnections

Renewable generation resource assessment

- Wind power modelling (windpro, including wind resource assessments)
- Meteorological data acquisition
- Solar resource assessments
- Energy yield analysis
- Cost / benefit analysis
- Project life cycle financial appraisal
- Generation mix optimisation, including HOMER Pro
- Application of multidisciplinary skillsets early to provide realistic "buildable" outcomes.



Life cycle assessment (LCA)

Leaders in engineering energy solutions to maximise financial return, minimise supply risk and improve ESG outcomes.

Mindset

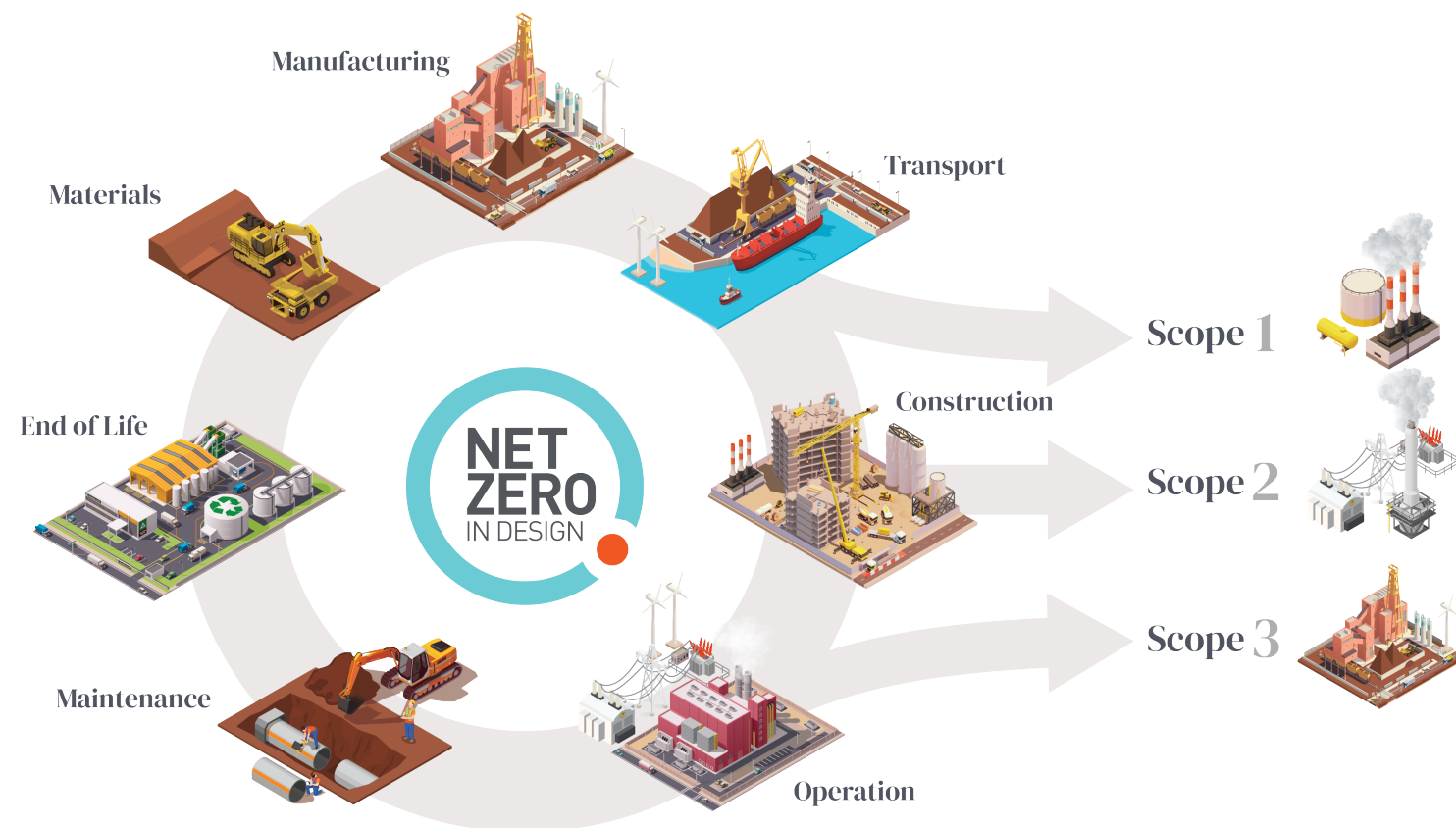
Like Safety in Design - NZiD is just part of the way Agilitus does business. From the moment we are engaged, be it at the concept, commissioning or operational stage, our team is always looking for ways to reduce energy demand and cost while identifying innovative methods to supply power to a project.

Process

To ensure we provide value add design inputs, we leverage best practice technologies. Our Total Energy Solution Optimisation (TESO) tool enables us to rapidly and iteratively model both demand and supply sides of the energy equation. Our Life Cycle Assessment (LCA) methodology allows us to model and improve all impacts associated with a project or process over its complete life cycle ensuring Scope 1, 2 & 3 emissions are optimised without uncertainty or compromise.

Standard

Backed by international standards and decades of experience, the processes and tools we utilise provide our clients with solid industry benchmarks to target and report against. The outcomes are quantifiable, repeatable and will hold up to the ever increasing scrutiny from the public and regulatory bodies.



Analytics, data and quality evaluation

Dedicated to seamlessly integrating our technical expertise, environmental impact, and financial viability considerations to offer real and practical solutions.

Technical due diligence reviews and reporting

- Independent review of vendor offerings (PV, BESS, RFB)
- Electrical vehicles, etc.) and vendor capability.
- Technical advisory and specialist support
- Independent engineer services
- Risk management (supply and contractual risk)
- Market and commercial advisory (PPA, BOO and EPC)
- Regulatory advice
- Design review
- Owner's engineer services
- Quality assurance and inspection services

Capabilities

- Asset definition & identification
- Condition monitoring & assessment
- Data analysis & aggregation
- Forecasting & modelling
- Maintenance planning & execution

Construction QA and QC

Across all phases of the construction quality management life cycle, Agilitus provides support in all aspects of QA and QC to ensure the goal of zero defect is achieved.

Asset management

To deliver more value to clients, Agilitus operates an in-house data-driven asset management business unit providing innovative capabilities for the Rail, Ports, Resources and Energy and Infrastructure sectors.

Testing of wind turbines, battery and storage power systems

Agilitus bolsters its internal capability by partnering with PSC to provide specialised testing of Wind Turbines, BESS, and other Power Systems.

General capabilities

- R1 and R2 compliance
- Generator compliance expertise for synchronous and asynchronous generators, across all technology types.
- Capability and equipment to undertake R2 compliance testing
- Dynamic study including grid connection studies for renewable and conventional generators.
- GPS Testing
- AVR and PSS Tuning Studies
- Harmonic Emission Assessments
- AEMO and NSP negotiations at various project phases (R1and R2).
- Full GPS Studies

Reference projects

Below are examples of projects where we have conducted testing of wind turbines, battery and storage power systems:

- Clarke Creek Wind Farm
- Gunsynd Solar Farm
- Quorn Park Solar Farm and BESS
- Forest Glen Solar Farm
- Axedale Solar Farm and BESS
- Bungama BESS
- Marulan Solar Farm
- Bungaberg Solar Farm



Energy and Power Study for Lithium Production Facility



Client



Value

Confidential

Location

Greenbushes, Western Australia

Duration

2023

We helped investigate energy supply options for a new lithium processing facility designed to meet increasing demand for lithium driven by the global energy transition.

Our client, a world-leading minerals producer, engaged Agilitus to complete an Energy and Power Study for the implementation of a Battery Energy Storage System (BESS) at its new lithium production plant.

Current mine expansion works have put pressure on the site's existing 30 MVA power supply drawn from the grid. An increase in envisioned capacity to 65 MVA was sought.

As part of this project, our client aims to reduce the site impacts of this non-referenced service via the implementation of a BESS in conjunction with a plantwide load shedding scheme to ensure continuity of operation. The company is currently investigating options around energy supply upgrades and supply reliability methods to integrate renewable energy into its operations.

Our Energy team is deploying our NZiD approach and focusing on delivering energy solutions that minimise lifetime cost, reduce supply risk, and enhance environmental outcomes.

In the longer term, it is also envisioned that alternative forms of onsite energy generation such as renewables and storage will be integrated into our client's energy supply mix.

As such, this study aims to complement its broader energy and sustainability goals by optimising the site's energy supply.

Energy Management Plan – Iron Ore Mine



Client
Undisclosed

Value
Undisclosed

Location
Undisclosed

Duration
Undisclosed

A leading mining company in WA engaged us to develop an accurate energy and power demand forecast for an iron ore mine site.

At the core of any sound decision making regarding energy is a solid energy management plan with accurate forecasts tied to relevant process data.

To complete this plan, Agilitus took into consideration several proposed major plant and equipment upgrades. Our work enabled the client to better manage energy contracts, identify opportunities for demand side management and alternative energy supply technologies.

Our Energy team reviewed the existing energy forecast, LoM Plan, the PPA, obtained whole-of-site metered power demand data, and collaborated closely with the client's teams. This information was collated, analysed and integrated into a refined power demand and energy forecast.

This Energy Plan has increased the accuracy of the forecast and ensures alignment with the LoM.

Our client is now well positioned to make informed decisions on future plant upgrades, demand side management opportunities as well as on site generation and optimisation of third-party supply contracts.

Tertiary Hydrocyclones Energy Study and LCA



Client
Undisclosed

Value
Undisclosed

Location
Undisclosed

Duration
Undisclosed

A global mining giant engaged us to undertake a decarbonisation study to demonstrate reduced operating costs, reduced risk and reduced CO2 impacts of all scenarios.

Our client sought to expand an existing minerals processing plant with the addition of Tertiary Hydrocyclones (THC), to improve fines recovery and high-grade Saleable Ore Product (SOP) production.

Agilitus conducted a LCA that modelled the lifetime emissions associated with the project. We also undertook an energy assessment to determine opportunities for operational energy reduction and Demand Side Management (DSM).

Our NZiD approach was integrated throughout the project life cycle to identify decarbonisation opportunities and ensure our client achieved its targets as efficiently as possible.

The Energy Study and LCA explored the most energy efficient and most significant carbon saving options, enabling our client to address Scope 1 and 2 emissions in its ESG agenda.

Our work on the project would lead to a reduced CAPEX, reduced OPEX, and reduced GHG emissions for the client.

CAPEX Reduction	Energy Consumption Reduction (GWh/yr)	Energy Cost Reduction (\$/yr)	GHG Abatement Cost Reduction (\$/yr)	Operational GHG Emissions Reduction (tCO ₂ e/yr)	Embodied GHG Emissions Reduction (tCO ₂ e/yr)
\$730K	3.3	\$650K	\$190,700K	1,856	517

Advancing Green Steel



Image: Copyright approved via Adobe Stock.

Client
Undisclosed

Value
Undisclosed

Location
Undisclosed

Duration
2023 - Ongoing

With the global energy transition underway and the need for organisations to decarbonise, a new green steel precinct is being considered in Australia.

It is intended to provide a long-term hub for the development of downstream iron ore processing technology, supported by a transition to green energy and green steel.

Our client, one of the world’s leading steel manufacturers, is proposing to develop a Hot Briquetted Iron (HBI) and Pellet Processing Plant, powered by green hydrogen – potentially comprising wind, solar, electrolyzers and pipelines. This is a crucial component of our client’s strategy to achieve carbon neutrality by 2050.

Agilitus has been engaged as a key engineering delivery partner for Phase 1 of the pre-feasibility study.

Comprising plant design for a 3.5 Mtpa pellet plant and a 2 Mtpa HBI plant, Phase 1 considers a range of aspects for future expansion and development flexibility, including direct export options for the pellet product.

Our initial involvement began with completing the engineering concept study for Phase 1, followed by a detailed civil and hydrology feasibility study and a geotechnical study.

Our team of engineering geologists and geotechnical engineers are steadily making progress in gathering valuable data and insights to support the development of the project. We are working closely with our client, Traditional Owners and First Nations communities to take measures to protect sites of environmental and heritage significance.

The spatial extents of the geotechnical investigations include the plant, ponds and pump station, natural gas station and power receiving station to acquire critical geotechnical information for the design and construction of the above structures.

- Scope of works:**
- Detailed review of information in relation to the project including current site investigation, site constraints, access corridors, and previous studies complete.
 - Complete detailed terrain mapping of the proposed site location via Lidar survey for use in design.
 - Develop engineering design and documentation for hydrology and bulk earthworks scopes (to the required level of definition) to support the development of a capital cost estimate.
 - Perform hydrological modelling using TUFLOW software including basic design of process plant bulk earthworks, site roads and drainage systems contained within the plant and port stockyard battery limits.
 - Compile a study report consolidating all engineering disciplines including hydrology and bulk earthworks design.
 - Complete CAPEX estimates and schedule for implementation.
- Phase 2 of our client’s project entails the initiation of a pre-feasibility study for the development of green hydrogen production including the establishment of a concept for electrolysis facilities.

McPhee Power Station Options Engineering Study



Power & Energy Concept Study



Client



Value

\$120M

Location

McPhee Creek, WA

Duration

2023

We were engaged to refine the power and energy demand for the McPhee Creek mine, enabling an overall reduction in energy demand by 46%.

Atlas Iron engaged our Energy team to refine the power and energy demand for the McPhee Creek mine, which is currently undergoing statutory approvals and planning. Our work helped to optimise the site's energy supply configuration for the lowest levelised cost.

The McPhee mine site is located in the northeast Pilbara region of Western Australia, approximately 100 km north of the Roy Hill Mine and 30 km north of Nullagine, with an expected production rate of approximately 9.5-9.7 Mtpa. Primary crushed ore will be hauled via road train from McPhee to Roy Hill for processing, transport to the port and shipping.

The interrogation and optimisation of the mine site design and load list by Agilitus enabled an overall reduction in power and energy demand by around 46%. This, combined with refining the power system design enabled a saving in CAPEX for the power station of over 28%, improved OPEX, reduced supply risk and enhanced vendor management.

Atlas is collaborating with other Hancock Prospecting Group companies on long-term growth options including the McPhee project. The Final Investment Decision (FID) is expected in mid-2023.

Client



Value

Undisclosed

Location

Undisclosed

Duration

Undisclosed

An optimised solution to the energy supply concern was developed that reduced production risk and resulted in substantial cost savings for the facility.

Agilitus was engaged to assist Talison investigate energy supply upgrade options, intending to address supply reliability and renewable energy integration into the Greenbushes mine site. The current mine expansion works and increase in capacity requires an upgrade to its existing network.

The study explored alternative power demand options, including solar and battery options, and the risks associated.

Production downtime losses, financial feasibility, forecast supply reliability and critical equipment operations were explored to determine an optimised energy supply solution that maximised renewable penetration and minimised risks and costs.

Stage 1: Verification and Establishing a Basis of Analysis

Conducting a review of:

- Current energy consumption and power demand,
- Existing and planned electrical infrastructure,
- Assessment of practical limitations of energy solutions,
- Current and forecast commercial and contractual energy supply arrangements,
- Energy supply risk (including high level network study and identification of operational critical equipment),
- Financial analysis.

Stage 2: Total Energy Solution Optimisation (TESO)

- Commercial analysis and review of opportunity to reduce supply and retail costs
- Performing demand side management study to investigate mechanisms for optimization of power and energy demand (including load profiles and load duration curves)
- Technoeconomic study to investigate relevant energy supply options, including network connection, solar pv, wind and BESS.

East Rockingham Waste to Energy



Owner's Engineer, LCA & Energy Solutions



agilitus.com

Client



Value

Undisclosed

Location

Rockingham, WA

Duration

2022

As Owner's Engineer, we have played a key role in realising this 300,000 tp/a diesel fired waste to energy facility.

Now complete, the facility will deliver a cost-effective waste treatment solution and be a vital source of dispatchable renewable energy, whilst achieving 96% diversion of residual waste from landfill.

The facility is designed to receive and convert domestic waste from the local regional council to reusable energy to meet nominated environmental standards.

The design and construction of the \$500M project was undertaken by Acciona. As Owner's Engineer, Agilitus has supported all aspects across detailed design and construction.

The plant will produce approximately 29 MW of power which will be exported into the grid from the site substation.

Through our multidisciplinary team of engineers, we identified and implemented a range of cost reduction initiatives while also providing robust technical oversight across the life cycle of the project.

Client



Value

Undisclosed

Location

Gladstone, Queensland

Duration

2022 – 2023

Fortescue has begun construction on what is planned to be the world's largest electrolyser manufacturing facility at Gladstone, Queensland.

Fortescue has engaged Agilitus for the design and construction for the Gladstone Global Green Energy Manufacturing facility.

Fortescue is developing its site at Gladstone, Queensland for the purpose of establishing a world class electrolyser manufacturing facility with an annual output capacity of 2 gigawatts per year (GW). This will be viewed as stage one of a potential Queensland Super gH2 Hub. The new facility will be dedicated to the manufacture and assembly of electrolysers.

The Energy team conducted a Life Cycle Assessment of the project to identify opportunities for reducing CO₂e impacts and make informed decision to achieve a Net Zero outcome for the facility. We are also delivering engineering and design services to supply renewable energy and onsite storage to provide lower operational costs while achieving environmental targets.

Zero Diesel Generator Design & Delivery



60% Renewable Wind, Solar and BESS Feasibility Study



Client



Value

Undisclosed

Location

Port Hedland, WA

Duration

2022 – 2023

Our NZiD team developed a foundation for reviewing and implementing alternative technologies reducing operational costs, minimising supply risks and assisting in the management of Scope 1 emissions.

As part of Roy Hill's Zero Diesel Generator Initiative, Agilitus was engaged to complete assessment of the diesel generators utilised at the Roy Hill mine site and model alternatives optimising LCOE, and reducing carbon emissions and risk. This has now progressed into design, vendor management and delivery support.

Our NZiD approach enabled us to deliver fast and efficient answers to questions and objectives presented by Roy Hill. It also ensured solutions and the implementation strategy optimised both cost and supply risk.

Client

Undisclosed

Value

Undisclosed

Location

West Musgrave, WA

Duration

2023

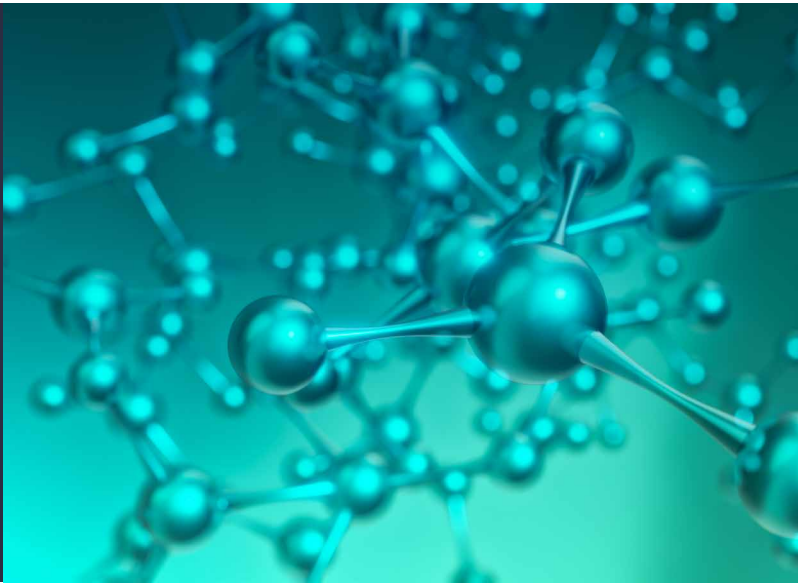
A leading proponent has engaged us to complete a pre-feasibility study to power a Western Australian gold mine with 60%+ renewable energy generation.

To achieve their reaffirmed commitment to sustainable production per year, Agilitus provided advice to reduce net emissions by 30% by 2030, thereby supporting their ESG priorities.

Following our work on the pre-feasibility for renewable energy generation, we have been given the green light to further develop this design by providing a Basis of Design, Capital Estimate, and Schedule Estimate.

Our Energy and Electrical engineering professionals are collaborating with the proponent to develop solar, wind and hybrid system capabilities for the mine. We are also providing value engineering with geotechnical, hydrogeology, site integration and powerline considerations.

Green Ammonia Project



Stanley Point Energy & Power Study



agilitus.com

Client
Undisclosed

Value
Undisclosed

Location
Undisclosed

Duration
Undisclosed

An undisclosed proponent is bringing to market a world-class green ammonia project, in Western Australia. The project will include the ammonia plant, a multi-user port, renewable energy systems (wind and solar), a desalination facility and the associated NPI.

The proponent is responding to the increasing demand for green ammonia, specifically from Korea and Japan.

Agilitus is providing stakeholder consultation and cultural heritage management capabilities (among others), for the proposed 750,000-tonne per annum green ammonia plant.

In recognition of the value of early engagement, the initial phase of stakeholder consultation and cultural heritage management included Traditional Owners, Aboriginal Prescribed Body Corporates (PBCs) and development corporations, local government and regional business and community leaders.

Upon completion of the Section 91, the secondary phase of stakeholder consultation and cultural heritage management will be undertaken.

Client


Value
Undisclosed

Location
Undisclosed

Duration
Undisclosed

Our NZiD approach was integrated throughout the project life cycle to ensure our client achieved their targets as efficiently as possible.

This Study covered the plan to increase the Roy Hill port capacity from the current 70 Mtpa level to 120 Mtpa (inloading) and 110 Mtpa (outloading and shipping).

Our Energy team determined the overall power and energy demand for the new infrastructure and put forward demand side management, energy generation and supply solutions that reduced LCOE and supply risk.

Decarbonising Fortescue's Infrastructure – Early Engineering



Client



Value

\$1M

Location

Various locations

Duration

2023 – 2024

We are helping Fortescue to deliver on its Decarbonisation Plan to eliminate fossil fuel use and achieve real zero terrestrial emissions across its Australian iron ore operations by 2030.

Agilitus has been engaged to commence early engineering works to provide permanent power and supporting infrastructure to enable the electrification of mining equipment and assets across Fortescue's operations.

Our Electrical and Energy teams plan to work on electrification assets including HME battery electric fast charging facilities and in-pit power reticulation to HME plug-in assets. In addition, our Civil team is confirming the proposed laydown areas of the assets across Fortescue's sites.

You're in good company

We work alongside many notable companies across Australia.

















Technical excellence

We are passionate about leveraging our technical ingenuity to solve complex problems.

Technical excellence is the bedrock of our business. It drives our people and propels the outcomes we provide for clients, communities, asset owners and operators, and financiers.

Our dedicated professionals and subject matter experts focus on understanding our clients' business objectives, their desired project outcomes, as well as the latest industry research for the sectors in which we operate.

A premium client experience

The success of our project work depends on leveraging the best expertise of our people. That's why we allocate the most qualified professionals to help realise our clients' development vision and bring their projects to life.

Our work is underpinned by strong engineering design principles, industry-leading technology and pragmatic advice to deliver exceptional outcomes, every time.

This approach provides the following benefits:

- Ease of understanding of regulatory frameworks
- Efficient navigation through the development approvals process
- Protection and preservation of our cultural heritage, the environment and waterways
- Healthy, transparent and trusted relationships are established with stakeholder groups
- Respectful liaison with Traditional Owners is undertaken
- Fair and equitable outcomes are achieved for First Nations' communities
- Project knowledge is retained, including lessons learned
- Innovation is embraced and deployed.

The quality and excellence of our world and ability to deliver the best technical and cost-effective solutions for our clients is guided by our Technical Leadership Team.

Technical Leadership Team

Led by the most senior members of our business, this team facilitates learning and knowledge transfer, professional collaboration and mentorship to drive continuous excellence in our technical capabilities. It also encourages our people to perform to high technical standards and rewards staff for incorporating innovation into projects.

Our dedicated professionals and subject matter experts focus on understanding our clients' business objectives, their desired project outcomes, as well as the latest industry research for the sectors in which we operate.



Safety is at the heart of our business

Our diverse and culturally aware teams embrace safe work practices that are environmentally sound.

Safety is integral to everything we do at Agilitus. We care about our people, clients, and the communities in which we operate, and strive for zero harm in everything we do.

Health, safety and quality are embedded in our work practices, while heritage and sustainability are considered throughout the entire project life cycle.

We recognise the importance of continuously reviewing safety in design issues at all stages of a project, from investigation, design, construction, operation (including maintenance), closure and rehabilitation.

Exceeding regulatory obligations, we leverage a formalised Health, Safety, Environment and Quality Management framework that allows us to analyse and implement practical measures to mitigate risks.



Leadership

- Understanding of client needs
- Technical Leadership Team governance
- Strong chartered presence
- Adherence to technical standards & regulatory instruments
- Committed to technical excellence
- Striving for low-carbon impacts



Systems

- ISO Accredited Quality Management System (QMS)
- Design assurance
- Engineering verification procedures
- Safety in Design
- Net Zero in Design
- Risk mitigation & management
- Project governance (action tracking, monitoring, performance and auditing)
- Continuous improvement (lessons learnt)



Characteristics

- Client centric
- Risk adverse
- Reliable
- Accountable
- Innovative
- Simplification
- Community and culture

Our vision is to be the most sought-after global multidiscipline engineering business; attracting and employing the best people with like-minded values while working on projects that make a difference to our communities.

We are **Engineering Amplified**

Let's talk about your project

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