

ZERO IN WITH THINKZERO

A World of Sustainability

In this Issue:

Spotlight on UQ and GW3
Made in Queensland, Australia
Seven Hard-Working Regional SMEs



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WITH THINKZERO

A World of Sustainability

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OUR WRITER

Janine Dyer

MADE IN QUEENSLAND

REGIONAL SUSTAINABILITY LEADERSHIP FOR AUSTRALIA



Dear reader,

I was born and raised in a fishing village called Mayaro, on the coast of Trinidad and Tobago – a place where tides, trade winds and tradition shaped the rhythms of life. It's this upbringing that shaped my deep respect for regional communities and their power to lead in times of change and uncertainty.

Today, that same spirit can be felt and lives on across Australia's regions, including in ThinkZero's home state, Queensland.

From Mackay to Mount Isa, and from the Bowen Basin to the Burdekin, local businesses aren't waiting for change – they're driving it. In 2024, Queensland's resources sector hit a record \$120.2 billion in value, but the real story of regions hell-bent on resilience and building better for future generations is unfolding in machine sheds, small-town boardrooms and Indigenous-led enterprises across the state.

At ThinkZero, we've been proud to walk alongside these trailblazers for four years – helping regional SMEs, ports, miners, manufacturers, and councils design credible, investable strategies and operations tailored to their realities.

This issue of Zero In zeroes in on them. You'll meet the seven region-based companies who stepped forward in 2025 to develop Climate Change Reports for the very first time. You'll read how local leadership and global frameworks can work hand in hand. And you'll see how regional stories, grounded in data and determination, are reshaping Australia's sustainability future.

If you want to understand the future of sustainability, don't just look to the capital cities. Look to the regions, too.

Sincerely,
Cle-Anne Gabriel
Founder & CEO

ZERO IN ON GREATER WHITSUNDAY ALLIANCE - GW3



A Region with Momentum

According to the GW3 website, the Greater Whitsunday region, comprising Mackay, Isaac and Whitsunday, contributes over \$79 billion in economic output and supports nearly 97,600 jobs. GW3 (Greater Whitsunday Alliance) is the region's future-shaping engine: working with government, industry and communities to turn potential into opportunity.

Accelerators for Change

GW3 organises its strategy around five key "accelerators" that cut across sectors: Decarbonisation, Digital, Diversification, Infrastructure / Energy / Water, and Workforce. These pillars guide how projects are selected and scaled, from industry transition to regional economic resilience.

Programs That Link to Place

Among its flagship initiatives are the Decarbonisation Accelerated Program, the Regional Jobs Committee, Greater Foundations (teacher capacity building), and

Digital Skills Masterclasses. Through these programs, GW3 helps local industry and business skill up, access new markets, and navigate disruption.

Stewarding the Future

GW3 isn't just about economic opportunity – it is also stewarding sustainable regional futures. By amplifying clean energy, advanced manufacturing, infrastructure advocacy, and equitable workforce development, GW3 is helping ensure the transition is just, inclusive, and built around community strengths.

Decarbonisation Accelerated: A Region-Wide Climate Response

The Decarbonisation Accelerated Project is GW3's ambitious initiative supported by the Local Buying Foundation and other regional institutions. Its mission is twofold: to reduce CO₂ output in core industries, and to open doors to new, low-carbon opportunities for local businesses.

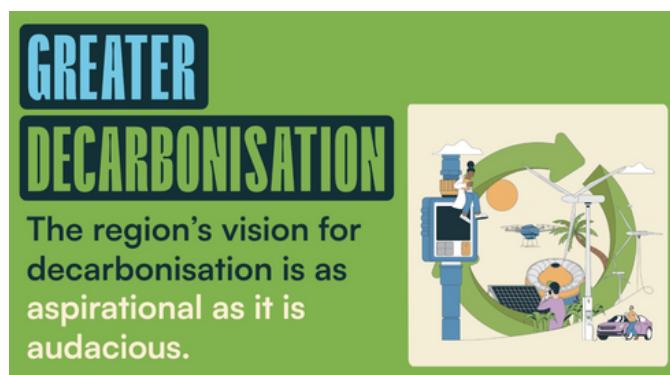
At its core, the project builds awareness and capability across the regional supply chain, providing coordinated education, benchmarking tools, and technical support to help businesses embark on meaningful decarbonisation journeys.

The project places a special focus on the METS sector (Mining Equipment, Technology & Services), seeing this cluster as uniquely positioned to both serve decarbonising resource operations and to diversify into adjacent growth areas like renewable energy, biomanufacturing, and critical minerals.

One of the landmark outputs of this work is the Greater Whitsunday METS Sector – Revenue

Diversification Strategy, which was developed through engagement with over 40 regional stakeholders to profile emerging sectors that align with the region's skills and comparative advantage.

By 2030, the Greater Whitsunday region aspires to be known for its action on sustainability, economic transformation and embracing decarbonisation to support thriving communities and enduring prosperity.



Selecting Regional Climate Leaders

To kick off the Net Zero Strategies pilot program, GW3 led a regional Expression of Interest (EOI) process to identify motivated, locally based companies ready to explore the implications of climate change on their operations.

The response was strong, reflecting a growing appetite for sustainability across the region's diverse industries.

After careful assessment, seven standout companies were selected to participate. These businesses represent a cross-section of sectors – manufacturing, mining, agriculture, infrastructure – and were chosen based on their readiness, regional footprint, and potential to lead by example as climate-conscious operators within the Greater Whitsunday Region.

In this issue, we're zeroing in on each of the seven companies selected through the pilot program and taken on as ThinkZero clients. ThinkZero was proud to support their inaugural Climate Change Reports, mapping key risks and opportunities.



Scan to learn more about GW3's work!

ZERO IN ON GEORGIA



Georgia Lavers is the Project Coordinator for decarbonisation and biomanufacturing at Greater Whitsunday Alliance (GW3), following her previous role leading GW3's workforce development initiatives. With a degree in Environment & Sustainability from ANU and experience in consulting and regional project work, Georgia relocated to Mackay to embed herself in the region and steer its sustainable growth.

At GW3, Georgia leads the decarbonisation and biomanufacturing portfolio, while also coordinating the engagement of participating companies in the ThinkZero-GW3-UQ climate report pilot initiative across the region. She ensures local participating firms receive climate-ready support – from stakeholder liaison to logistical coordination and capacity building. Her role has become a vital bridge between theory and practice.

In June 2025, Georgia delivered a keynote at the Whitsundays Chamber's "Future of Work" event, speaking to business leaders, students, and educators about what Generation Z seeks in workplaces. At just 24, she spoke candidly about how young professionals want purpose in their jobs, meaningful mentoring, flexibility, and transparency. She urged businesses to "take young



people on the journey", involving them in decision-making rather than siloing them outside the process. As Georgia put it: "Don't assume, ask." Her insights not only reflect her generational perspective, they also reinforce her commitment to building sustainable workplaces that retain local talent.

Georgia's passion for regional transformation isn't just theoretical – she is deeply embedded in the day-to-day work of making change happen. She frequently engages with local industry, education providers, councils, and community groups, ensuring GW3's projects remain grounded in local voices and realities. Her ability to form genuine partnerships, listen to diverse perspectives, and translate strategic ambition into hands-on action helps connect the dots between policy aspirations and real outcomes on the ground.

Georgia's combination of youthful perspective, regional dedication, and operational leadership positions her to play a central role in ensuring the Greater Whitsunday region's sustainability aspirations become inclusive, resilient realities.

FAMILY-RUN, FUTURE-FOCUSED

THE LEGACY OF FAMILY BUSINESSES AND SUSTAINABILITY



In an era dominated by global supply chains and multinationals, it's easy to overlook one of the most powerful, proven drivers of sustainability: the family-run business.

Across regional Australia – and particularly in this issue's focus areas – many of the enterprises leading the way on climate and sustainability are proudly family-owned. These businesses, some now in their second or third generation, are not just economic contributors. They are stewards of place, of people, and of possibility.

Why does that matter for sustainability?

Family businesses are uniquely positioned to think long-term. With succession in mind and deep ties to their communities, these businesses often prioritise resilience over short-term profit. Their investment decisions aren't driven by quarterly returns – they're shaped by what will endure. And in a world seeking real intergenerational solutions to climate change, circularity and ecological stewardship, that long view is not just refreshing – it's essential.

Family-run businesses also tend to be more embedded in local economies. They employ neighbours. They sponsor junior sports teams. They innovate with what's available, and give back to the communities they call home. That local accountability means their sustainability decisions often reflect genuine concern, not just compliance or PR.

Finally, in a landscape of high-level frameworks and acronyms, family-run businesses bring something else: heart. Their stories cut through the jargon, reminding us that sustainability isn't just about targets. Sustainability is also about people, purpose, and place.

As we look to a future shaped by sustainability, it's time to recognise the quiet power of family-led enterprises, not just as contributors to sustainability, but as some of its most important champions.

ZERO IN ON C&C CIVIL & MINING CONSTRUCTION

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Since 1993, C&C Civil & Mining Construction has been a cornerstone of Queensland's industrial landscape. From concrete foundations and bridges to large-scale civil and mining projects, the company has built a reputation for delivering robust, high-quality infrastructure across the state. Headquartered in Mackay, C&C's work extends deep into the mining and resources heartland — helping power two of Queensland's most critical industries: mining and construction.

Over three decades, C&C has evolved from a concrete specialist into a diversified contractor capable of handling complex civil and mining projects worth up to AUD \$15 million. Its team combines advanced engineering, project management, and innovation — including patented flame-proof shotcrete rigs and gas migration control technologies designed to improve safety and performance across underground mining environments. Whether repairing critical assets or building new infrastructure, the company's hallmark is reliability under pressure.

As the mining and construction sectors face growing scrutiny over carbon intensity, C&C Civil recognises the importance of adapting to a changing landscape. Clients and regulators are demanding cleaner operations, lower embodied emissions, and stronger climate governance. C&C's proactive stance reflects an understanding that sustainability is no longer a niche concern — it's a prerequisite for competitiveness and resilience.

This year, ThinkZero supported the company in preparing its Scope 1, 2 and 3 Greenhouse Gas Inventory and its Climate Change Report, outlining how climate trends, risks, and emerging technologies intersect with C&C's operations. The analysis highlighted clear opportunities that could shape the company's future in Queensland's economy.

For C&C Civil & Mining Construction, innovation has always been a matter of necessity, not trend. Now, as the industry shifts toward a low-carbon frontier, that same spirit of ingenuity is guiding how this Queensland powerhouse continues to build — stronger, smarter, and ready for the challenges of a changing climate.



Mark Sanfilippo is the General Manager of C&C Civil & Mining Construction. Scan the QR code to learn more.



ZERO IN ON CROP WISE



Across Queensland's agricultural heartland, Crop Wise has built a strong reputation as a trusted partner to farmers – providing fertilisers, agronomic advice, and practical support that helps growers stay productive and resilient. Based in Mackay and deeply connected to local farming communities, the business understands the pressures and opportunities shaping modern agriculture.

Strong relationships and technical know-how have always been central to Crop Wise. As farming systems evolve – influenced by weather variability, soil health, shifting supply-chain expectations and a growing focus on sustainable inputs – the business continues to help growers perform today while preparing for tomorrow.

Climate change now adds both complexity and opportunity. Fertiliser markets are shifting, agricultural inputs face greater scrutiny, and major supply-chain partners are moving toward emissions reporting.

At the same time, farmers are adopting precision practices, soil-carbon improvements, and lower-emissions technologies.

To support this transition, ThinkZero worked with Crop Wise to assess how climate change may affect its operations, customers, and supply chain. The resulting Climate Change Report highlights key emissions drivers and identifies opportunities in energy use, transport efficiency, supplier engagement, and product innovation – including sustainable fertiliser pathways and digital tools that strengthen productivity and traceability.

For Crop Wise, this is not a departure from its strengths but an evolution of them. The business is positioning itself not just as a supplier, but as a partner in a more climate-aware agricultural future – helping customers adapt, innovate, and stay competitive.

In a region where agriculture underpins communities and livelihoods, Crop Wise stands as an example of grounded, forward-looking leadership – staying close to growers and looking ahead as the sector changes.

ZERO IN ON CLARE



Clare McAlpine has built a career rooted in regional business, community connection and sustainable change. Based in Mackay, Queensland, and with over two decades of experience in administration, accounting and management, she now runs her own firm – New Leaf Business Solutions – helping small and medium enterprises (SMEs) optimise their operations and embed practical sustainability.

In her previous role at the Greater Whitsunday Alliance (GW3), Clare was the lead coordinator for the collaboration between GW3, ThinkZero, and The University of Queensland, overseeing the EOI process and initial engagement with the SMEs to develop their inaugural Climate Change Reports.

Today, through New Leaf Business Solutions, Clare brings a mindset of streamlining and sustainability to regional firms. Her services span business setup, process optimisation, software and administration solutions and, notably, sustainability advice designed for SMEs rather than large corporations.

In regions like Mackay, where the economy intersects with mining, METS, agriculture and coastal communities, the case for sustainability isn't just compliance – it is resilience, viability and future-proofing. Clare's work exemplifies how regional leadership can shape this narrative. She shows that sustainability doesn't just happen in the city boardrooms—it happens in local businesses, with dedicated people who understand context, community and the need for practicality.

At ThinkZero, we were fortunate to partner with Clare on the GW3-UQ-ThinkZero pilot, and we continue to draw inspiration from her ability to connect strategic purpose with operational action. As she builds her boutique advisory work, Clare remains a powerful advocate for regional businesses stepping into the transition-era with agency, insight and confidence.

ZERO IN ON

DOWDENS GROUP



For more than fifty years, Dowdens Pumping & Water Treatment has been solving one of Queensland's most essential engineering challenges: how to move, treat, and manage water reliably in some of Australia's most demanding environments. Founded in Mackay in 1973, and still proudly family-owned, Dowdens has grown into one of the state's leading water-engineering providers. It serves mining, agriculture, municipal infrastructure, health, aquaculture and industry from hubs across Mackay, Rockhampton, Emerald, Brisbane, and Proserpine.

Water is central to Queensland's economy and identity, and it sits at the front line of climate change. From changing rainfall patterns and increased cyclone intensity to rising expectations for water efficiency and environmental stewardship, the future of water management demands innovation. Dowdens is leaning into that future. With decades of experience in delivering complex engineered systems,



the company understands that resilient water infrastructure is fundamental not just to productivity, but to community well-being and environmental protection – including stewardship of vulnerable ecosystems like the Great Barrier Reef.

ThinkZero supported Dowdens to develop a Climate Change Report, outlining how climate trends, regulatory expectations, and low-carbon technologies may shape the company's operating environment in the years ahead. The analysis identified opportunities in renewable energy, fleet transition, smart water-system innovation, circular-economy practices and enhanced ESG positioning. Importantly, it builds on a culture already centred on engineering excellence, accountability, and service to regional industries doing the hard work of powering the state's economy.

For Dowdens, sustainability includes helping industries access water more efficiently, responsibly, and reliably. In a world where water security and climate resilience are fast becoming competitive necessities, Dowdens isn't just keeping pace. They are proving that regional engineering excellence can lead the way.



Scan to explore the
Dowdens Group website



Across coal mines, sugar mills, council treatment facilities and farm irrigation systems, Dowdens' team of nearly 200 engineers, tradespeople and specialists delivers end-to-end capability – from design and fabrication to installation, commissioning and after-sales support.

What sets the business apart is not only the scale of its technical solutions – including large-format dewatering and water-treatment systems – but its deep regional roots and unwavering commitment to customer trust, performance, and community resilience



ZERO IN ON JPR WELDING



Since 1992, JPR Welding has been a trusted name in metal fabrication and engineering across the Mackay region, supporting the mining, commercial, marine, and industrial sectors with steel and aluminium fabrications, repairs, and specialist services.

Located in Paget, JPR Welding's modern workshop is equipped to deliver tailored solutions to meet unique client needs, from stud welding to heavy repairs for coal handling plants and specialist machinery. Their reputation is built on craftsmanship, reliability, and adapting to customer demands.

In recent years, as global supply chains and procurement standards evolve, JPR Welding has begun positioning itself for the next phase of regional industrial competitiveness. Though not required under the mandatory Australian emissions disclosures, many of JPR's major clients operate under such regimes and increasingly expect climate awareness and accountability from their suppliers.

This shift means that businesses like JPR Welding are no longer just fabricators or repair specialists; they're also stewards of supply chain resilience. Producing with an eye to materials, energy, waste, and future regulatory considerations is part of staying in the game.

ThinkZero provided technical support to deliver a Climate Change Report for JPR Welding - mapping out how climate change may affect operations, identifying potential areas to respond, and flagging opportunities aligned with JPR's strengths (such as material reuse, energy efficiency, and client linkage).

While this report was not a binding strategy, it offers JPR Welding a clearer lens on the road ahead - and in a landscape where regional SMEs must compete on both quality and climate credibility, that kind of insight matters.

As Queensland's regional manufacturing and industrial base evolves, JPR Welding stands as an example: capable, rooted in place, and ready to build toward a future where climate readiness is part of doing business - not an optional extra.



Scan to explore the JPR Welding website.

Founded by John and Karen Robertson who started the company in 1992 from their backyard shed, for JPR Welding, innovation doesn't mean losing sight of its roots – it means building smarter, cleaner, and stronger for the communities that rely on its craft.



ZERO IN ON TONY



At the University of Queensland, Dr Tony Heynen is about to become Associate Professor in Chemical Engineering from 1 January 2026. He is the Program Coordinator for UQ's Sustainable Energy postgraduate programs (Master of Sustainable Energy). He leads curriculum design and professional research projects aimed at shaping the next generation of clean energy leaders.

Tony's research spans three core pillars: strategies for net-zero emissions and sustainable legacy planning (such as for mega-events like Brisbane 2032), energy access in remote and underserved communities (in PNG, Timor-Leste, India), and innovations in higher-education pedagogy around sustainability leadership.

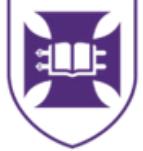
Before academia, Tony worked in the resources and energy consulting sectors—including serving as Country Manager for Italian energy firm ENI in Timor-Leste. That operational experience gives him credibility when engaging with industry, governments, and communities.

His recent work includes:

- Assessing how climate-positive strategies for Brisbane 2032 can leave lasting, positive infrastructure legacies
- Investigating electrification models in post-conflict and rural settings
- Upholding the role of energy literacy and equitable access in his applied research in PNG and India

Tony is also a pioneer of place-based learning. He embeds students in real community and organisational contexts so they see climate and energy not as abstract equations, but as lived systems shaped by culture, local need, and operational realities. Tony's students supported ThinkZero to finalise Climate Change analyses and reports for SMEs in the Mackay region.

Tony's presence in the ThinkZero-GW3-UQ collaboration bridges technical rigor, policy insight, and real-world impact. In a world where energy transition is no longer optional, he helps train the people who will lead, and designs research that holds governments and industries accountable.



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ZERO IN ON FRANZISKA



Dr Franziska Curran has a foundation in chemical engineering and a PhD focused on market-based delivery of essential services in low-income regions. Her work bridges carbon accounting, decarbonisation strategy, and sustainable energy access – especially in corporate and industrial settings.

Franziska is deeply embedded in the policy-tech nexus. She is a recognized expert in the revamped Safeguard Mechanism regime in Australia, guiding large emissions-intensive businesses in modelling emissions forecasts and designing credible net zero pathways across scope 1, 2, and 3 emissions. In her recent conversation on the AGL Net Zero Path for Business podcast, she emphasised that effective climate commitments must include the full emissions footprint – and that scope 3 accounting is both complex and necessary for integrity in transition.

What makes Franziska's work impactful is her role as a technical mentor. She worked alongside UQ's Sustainable Energy Master's students to support their understanding and capability development around net zero strategy.

As an educator at UQ, Franziska worked closely with students on first drafts of the Climate Change Reports for seven ambitious companies in the Greater Whitsunday region. Through her mentorship, she contributed to emissions baselining, climate risk modelling, and scenario planning. This collaboration echoes her pedagogical belief that the best climate education happens through project-based, real-world learning.

Franziska's commitment to inclusive climate leadership is grounded in a strong belief that the most urgent environmental solutions must also be the most equitable. Her involvement in the WELA program (Women in Energy, Leadership & Advocacy) reflects this ethos – helping us all reimagine what leadership looks like in the face of a climate-constrained future.

In a landscape where decarbonisation talk is everywhere but execution is rare, Franziska Curran stands out not just for her technical acumen, but for her ability to translate models into meaningful pathways – grounded in fairness, rigor, and local context.



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Family Photo (2023).

L-R: Ben Colvin (Director), Dominik Colvin (Administration), Baby Luke (Ben & Dominik's eldest son), Selina Colvin (CFO), and John Colvin (Managing Director)



Prochem Group of Companies is an Australian-owned, second-generation business based in Mackay, Queensland, established in 1999. It provides a wide range of services and products to the resource, industrial, and transport sectors. Its workshop service centre operates as a Scania dealership and authorised agent for Palfinger, and Maxilift, providing specialised servicing and support for heavy vehicles, a hydraulics service centre for mining and OEM applications, and offers haulage and logistics services across Queensland.

Prochem also manages warehousing, repackaging, and distribution of liquids, powders, and lubricants, along with infrastructure and environmental support such as water treatment, dust management, and waste control. Additionally, it produces and distributes engine coolants, including a unique recycled coolant-based detergent, and runs a retail outlet for industrial and automotive parts.

Prochem's team is known for precision, adaptability, and a safety-first culture that has earned them repeat business with Tier 1 clients. Their expansive workshop, on-site capabilities, and multi-skilled workforce make them a trusted partner in complex projects across the region.

Yet their real strength lies in something deeper: a commitment to local roots, regional capability-building, and continuous improvement.

In today's evolving market, industrial firms face rising expectations around climate readiness and emissions performance—not only from regulators, but from customers. Major mining and infrastructure players are embedding climate considerations into procurement, and expect their suppliers to follow suit.

In response, ThinkZero supported Prochem to prepare its Climate Change Report—mapping out its risks and opportunities associated with climate change. The report explored physical risks like heat and flooding, transition risks from shifting regulation and market standards, and potential ways Prochem's expertise in materials, modularisation, and waste minimisation could support low-carbon innovation. The report gives Prochem a foundation for alignment with its clients' decarbonisation pathways.

For regional suppliers navigating an uncertain future, climate-informed decision-making is fast becoming a differentiator. And in Prochem Group, we see a company that's not just reacting—but steadily leading.



Scan to explore the website of
Prochem Group of Companies



Family-Owned, Regionally Rooted

Prochem Group is proudly second-generation, family-owned and operated, with deep roots in Mackay. Under the leadership of Managing Director John Colvin and his son and fellow Director Ben Colvin, supported by their family and a dedicated local management team, Prochem has grown into a trusted, multi-divisional enterprise serving Queensland's heavy industries with an enduring commitment to innovation, reliability, and community.



Prochem delivers a suite of critical industrial services — from its Truck Service Centre and Hydraulics workshops, to Haulage, Warehousing & Distribution, Infrastructure & Environmental Support, engine coolant supply, and their pioneering Coolant Recycling Technology. What sets Prochem apart is its openness to embed sustainability into each service.



As Prochem looks ahead, the Climate Change Report prepares the company to align its offerings to strategic sustainability levers and prepare for transparent emissions reporting that builds trust among its customers.



SOFT RIGGING SOLUTIONS



From their Whitsunday workshop, husband-and-wife team Josh and Natasha Leppard have built something extraordinary. What began in 2019 as a vision to make lifting and recovery systems lighter, safer, and smarter has evolved into Soft Rigging Solutions (SRS) – a Queensland-born engineering success story redefining what's possible in industrial rigging.

Unlike traditional steel setups, Soft Rigging's products use high-performance synthetic materials such as Dyneema®, delivering a combination of strength, flexibility, and corrosion resistance that heavy industries increasingly demand. Their advanced soft slings, recovery systems, and rigging assemblies now support Tier-1 clients across mining, marine, and energy – demonstrating that regional innovation can compete with the best in the world.

The company's approach blends craftsmanship and innovation: precision engineering underpinned by a deep understanding of field conditions. Every product is designed for safety and endurance in extreme environments.



The Leppards' focus on continuous improvement has positioned SRS as a key enabler of efficiency, performance, and safety in Australia's resource value chain.

Yet as industries pivot toward sustainability and emissions transparency, Soft Rigging Solutions is also preparing for the next challenge – aligning innovation with climate ambition.

Earlier this year, ThinkZero supported SRS with a Climate Change Report outlining how climate risks and opportunities intersect with its operations. The analysis reinforced the company's existing strengths – renewable energy integration, materials innovation, and a forward-looking mindset – while identifying potential pathways to deepen its positive impact and explore recyclable or bio-based rigging materials.



For Josh and Natasha, the message is simple: resilience and innovation go hand in hand. And as Queensland's industrial backbone shifts toward a cleaner, smarter future, Soft Rigging Solutions proves that strength can also be soft — and sustainability can start right here at home.

Scan the QR Code to learn more.



ZERO IN ON XSEED SOLUTIONS



Truck Guarantee Scheme
to unlock climate targets



Xseed Solutions is an Australia-based technology company, focused on hydrogen-based circular solutions. Xseed Solutions is working with Boson Energy and Methanol Reformer to establish Sustainability Precinct ecosystems to upcycle waste so as to avoid emissions from both landfill waste and road transport diesel. Their goal is to create climate positive communities throughout Australia.

In the heart of Queensland's industrial growth corridor, Xseed Solutions is aiming to carve out a bold new chapter: turning non-recyclable waste into locally-produced, zero-emissions hydrogen, green methanol and renewable power. The company's proposed Mackay-based facility aims to deploy their Hydrogen-capable Plasma Assisted Gasification (HPAG) innovation to convert waste streams into Grade A hydrogen and other commodities for transport, energy and industrial applications.

Xseed's proposition is regional and strategic. With waste sources, renewable energy potential and transport demand all converging in central Queensland, the vision is to bring hard-to-abate sectors a locally-anchored solution – one that reduces reliance on long-haul fossil imports, cuts value chain emissions and strengthens regional supply resilience. And in doing so, it could position Mackay as a hub for circular economy and low-carbon industrial services.

ThinkZero has prepared a Climate Change Report for the facility, providing the baseline assessment of emissions, supply-chain exposures and transition levers. The analysis outlines risk vectors such as policy shifts, technology-cost volatility and value-chain disruption alongside opportunities in renewable-powered hydrogen, circular feedstocks and innovation-driven revenue streams.

For Xseed Solutions, the work isn't about compliance alone; it's about building a future-proof platform where waste, renewable energy and mobility converge. As Queensland's regions diversify and decarbonise, this facility exemplifies how regional engineering, clean innovation and climate ambition can intersect to create new growth pathways.



Xseed : L-R: Dr Mark White, Chair; Craig Allen, Director; Ed Skinner, Director



Scan to explore the Xseed Solutions website



Boson Energy: L-R:
Jan Grimbrandt, Co-CEO and Liran Dor, CTO, Co-CEO



Zero emissions hydrogen can be produced utilising renewable power and Hydrogen-capable Plasma Assisted Gasification (HPAG) technology diverting non-recyclable waste from landfill.

QUEENSLAND'S EMERGING SUSTAINABILITY LEADERS

The first phases of ThinkZero's Climate Change Report projects this year were enriched by the contribution of Master's students from the University of Queensland's Net Zero Pathways for Business course. As part of their applied learning, students undertook preliminary emissions assessments, collated activity data and explored early scenario concepts for each participating business.

Their work saved our consultants time, and provided a valuable foundation for ThinkZero's quality review and final analysis and reporting.

We extend our thanks to these emerging sustainability professionals for their enthusiasm, analytical effort and commitment to real-world impact. Collaborations like these strengthen the bridge between academic learning and industry transformation, and make quality advisory expertise accessible to SMEs.



BEFORE OUR NEXT ISSUE

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Q2 2026 (COP30 BRAZIL)

Did you catch our JET Deal Room video feature in the Australia Pavilion? You can still [watch it here](#).

Q3 2026 (ONLINE)

EUROPE, MIDDLE EAST & AFRICA:

Next, we'll share what we've been up to in markets outside Australia. Don't miss our March 2026 issue, plus all the news in-between - [subscribe today!](#)

WHEN YOU'RE READY:



- Ask us about the global [“Implementing ESG Strategy” program with Harvard Business Impact](#)
- Ask us about our ThinkZero Greenwashing Risk Assessment©
- Ask us how we can help with your Climate Change Report, including emissions inventories, climate risk assessment, and net zero planning.

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