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ENIQUEST

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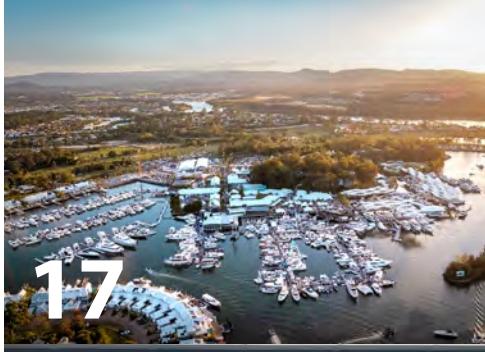

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YANMAR JOHN DEERE

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GORI PROPELLER experience the difference · HUNDESTED PROPELLER · SHAFT SEAL · mase GENERATORS · AMAROQ DIESEL

POWER EQUIPMENT WELCOMES ENIQUEST

Power Equipment partners with award winning Australian diesel generator manufacturer Eniquest to expand generator range.

Power Equipment is thrilled to announce its latest venture - an exclusive distributorship agreement with renowned Australian generator manufacturer Eniquest.

This strategic partnership marks a significant milestone for both companies, bringing Eniquest's premium range of generators to an even wider audience across Australia, New Zealand, and the South Pacific.

Starting this month, Power Equipment will add Eniquest's acclaimed Husky, Ranger, and Stockman model generators to its extensive portfolio. This collaboration enhances Power Equipment's already impressive lineup of power options, aligning perfectly with the company's ability to provide high-quality, reliable products across various sectors, including home and business power systems, construction, mining, agriculture, and emergency services.

Eniquest's generators are celebrated for their Australian-made precision and engineering excellence. The Husky, Ranger, and Stockman models represent the pinnacle of Eniquest's commitment to performance and durability.

A Strong Foundation for Success

The partnership between Power Equipment and Eniquest is built on a foundation of mutual respect and successful collaboration. Power Equipment has been a trusted supplier of Yanmar and John Deere diesel engines for Eniquest generators for some years now.

Recently, Eniquest secured a prestigious contract with the Australian Defence Force to supply generators equipped with Yanmar engines from Power Equipment. This longstanding relationship has paved the way for the new distributorship deal, which brings Eniquest's generators to a broader market.

Eniquest generators in production at their Sunshine Coast manufacturing facility.

Power Equipment CEO Luke Foster expressed enthusiasm about the new distributorship, highlighting its importance for both companies. "Eniquest's Husky, Ranger, and Stockman generators are celebrated for their reliability, durability, and exceptional engineering," said Foster. "These premium Australian-made machines are a perfect fit for our portfolio, enhancing our ability to meet diverse customer needs."

Mr. Foster also emphasized the natural synergy between the two companies. "Our existing collaboration with Eniquest in supplying diesel engines made it a logical step to partner with them as distributors," he added. This partnership underscores Power Equipment's commitment to offering top-tier products and reinforces their position as a leader in the power solutions market.

Eniquest's Commitment to Excellence

Eniquest's Managing Director, Don Pulver, expressed pride in the partnership, noting the company's dedication to quality and long-term success. "We're focused on building better generators for the long haul," Pulver said. "This distribution partnership with Power Equipment allows us to concentrate on what we do best."

The Eniquest range stands out for its superior performance and are engineered to excel in multiple aspects, including fuel efficiency, robustness, and advanced controller design. The Ranger and Stockman models are noted for their exceptional efficiency, thanks to the use of Yanmar diesel engines and permanent magnet alternators. This contributes to an impressive efficiency rate of up to 95%.

Don Pulver, Eniquest Managing Director

HUSKY
3kVA - 5kVA

RANGER
7kVA - 13kVA

STOCKMAN
7kVA - 44kVA

> **These premium Australian-made machines** are a perfect fit for our portfolio, enhancing or ability to meet diverse customer needs.

Pulver highlighted the technical advancements that set Eniquest generators apart. "Our generators are designed with controllers that eliminate relays, and the alternators are devoid of electronics," he explained. "This design minimizes potential failure points, making the machines more robust and reliable."

Additionally, Eniquest's generators feature powder-coated aluminium housings and a unique mounting system that provides superior vibration isolation and protection. This innovative mounting system was a key factor in Eniquest's recently securing an Australian Defence Force contract, showcasing their products' durability and resilience.

A key advantage of the Eniquest generator design is also evident in the quiet operation of their machines – some of the quietest on the market in fact.

Looking Ahead

The partnership between Power Equipment and Eniquest marks a significant step forward in the power generation sector. By combining Eniquest's innovative, high-quality generators with Power Equipment's extensive distribution network, the two companies are poised to deliver exceptional power solutions to a diverse range of industries.

STOCKMAN
85kVA

As Power Equipment continues to expand its offerings and reach, the addition of Eniquest's Husky, Ranger, and Stockman generators promises to enhance their ability to meet the evolving needs of their customers. This collaboration not only reinforces their commitment to quality and innovation but also sets the stage for continued success in the power solutions market.

For more information and details on the Eniquest range of diesel generators, visit powerequipment.com.au/eniquest

TURNING THE TIDE

50 years of industry defining innovation with Gori Propeller

The Gori Propeller brand has been one of innovation and ground breaking design, and this year we celebrate 50 years since the first Gori folding propeller hit the market and changed boating forever.

As Gori Propellers approaches its remarkable 50th anniversary, the essence of the original design remains as impressive as ever, showcasing effortless innovation in the sailing world.

A collaboration of engineers, marine specialists and the creative vision of Bang & Olufsen's designer, David Lewis, Gori's pioneering folding propeller has proven that it's hard to beat the original.

The genesis of this iconic propeller dates back to the early 1970s in Germany, where inventor Mr. Menke embarked on the ambitious task of designing a folding propeller with synchronized blades. It wasn't long before he received an unexpected call from Niels Oluf Ehrenskjöld of Denmark, then at the helm of a company called Gori.

Ehrenskjöld, (whose company originally specialized in paints and wood protection), had his sights set on the maritime sector through Gori Marine A/S. Upon hearing about Menke's innovative folding propeller, he grasped the opportunity to become the agent for what would soon evolve into a revolutionary product.

What followed was nothing short of groundbreaking.

Ehrenskjöld seized the reins, leading the collaboration between Gori and the Danish Maritime Institute alongside designer David Lewis. Together, they crafted a refined version of the two-bladed folding propeller that forever altered the landscape of sailboat technology.

A design that remained the best on the water for decades

In 1976, this innovation garnered the prestigious Danish ID award for outstanding industrial design, and remarkably, the propeller design has remained unchanged ever since, still captivating sailors around the globe.

A testament to its endurance, a 2007 test published in the German sailing magazine Segeln revealed that Gori's two-bladed folding propeller stood firm as the industry's most efficient offering, over 30 years post-launch.

Fast forward to today and Gori Propeller has cemented its reputation, recognized by nearly every sailor worldwide.

Although the company has introduced new products over the decades, their catalogue remains deliberately concise; Gori thrives on quality over quantity, with any new introduction not just meeting market demands but often setting new standards in both awards and longevity.

The Gori three-bladed folding propeller continues to be the most efficient according to Lars Østergaard, Senior Vice President for Sales at Gori Propeller.

This sentiment highlights the company's evolution in the 1990s, where they expanded into the racing sector, responding to British sail drive manufacturer Silette Sonic's request for a propeller optimized for minimal water resistance.

The result was the Gori Racing Propeller, which has become the choice of champions in the competitive sailing scene.

As larger cruising vessels with increasingly powerful engines emerged, Gori adapted.

"Bigger engines need bigger propellers," Østergaard explains. "You can compare a propeller with the tires on a car. A car with

Gori 3-Blade Single Pitch Propeller

Power Equipment's Dave Low (left) & Lars Østergaard from Gori

a big engine needs wide tires to transfer all that engine power to the asphalt."

As such, introduction of the three-bladed folding propeller in 1994 was not only timely but necessary. It has since become the cornerstone of Gori's product lineup.

Continued impressive performance

The performance of Gori's propellers is impressive. With a design that promotes equal pitch in both forward and reverse, the three-bladed model provides sailors with exceptional manoeuvrability — an essential safety feature for cruisers navigating busy harbours or tight marinas.

"Safer and easier harbour manoeuvres are essential for cruisers," says Østergaard, underscoring the propeller's superiority.

However, its lower water resistance than competing models is the standout feature with cruising boat owners.

Lower folded resistance has made it particularly favoured among long-distance sailors, with claims that up to 80% of cruising boats crossing the Atlantic are equipped with a Gori three-bladed folding propeller.

Gori's commitment to optimal design has continued too, with meticulous calculations to ensure efficiency across various engine sizes.

"When we reach approximately 150hp, four blades are needed," Østergaard notes, illustrating the company's dedication to catering to the evolving needs of sailors.

Continuing to innovate, Gori propellers are crafted in Denmark, where the brand maintains stringent control over materials, design, and production quality. A recent investment in cutting-edge CNC technology — a cool €1 million — has taken precision to new heights.

Gori Propeller has been part of the BSI Marine Equipment Group since 2015. BSI is recognized as one of the world's largest manufacturers in the boating industry.

With a diverse product line that encompasses everything from rigging to steering systems, Gori stands proud alongside other respected brands under BSI's umbrella, including Hundested Propeller and Jefa Steering.

As Gori Propellers gears up to celebrate 50 years of excellence, one thing is clear - This innovative spirit not only transformed the world of sailing but also solidified Gori's status as a lasting symbol of quality and efficiency on the water.

Discover the Gori Propeller range at powerequipment.com.au/gori-propeller

YANMAR
THE EXCLUSIVE CHOICE FOR AWARD WINNING CLEAR RIDGE FABRICATION

SUPA bins make high-volume, broad-acre grain farming safer and more efficient. Brothers Dallas and Kaidan Boyd designed and started building innovative new chaser bin systems back in 2019 that make the job of transferring grain and fertiliser much easier, (and safer), for farmers. When they needed a compact engine with more grunt to power their design, the Yanmar TNV series stood well above and beyond the competition.

Clear Ridge Fabrication (CRF), born from the ingenuity and hard work of brothers Dallas and Kaidan Boyd in 2019, build some of the best field grain handling bin trailers available on the market.

The Boyd brother's designs have not only delivered better high-volume grain and fertiliser handling, but a safer work system.

The Yanmar 4TNV84T engine is at the heart of the design within the self-contained hydraulic drive option bins.

Both the SUPA Bin 22 to 50 tonne capacity options can be supplied with an onboard power pack to run a conveyer, a self-cleaning tubulator, and other hydraulics.

When Dallas and Kaidan wanted more horsepower without using more space on their SUPA Bin designs, the Yanmar TNV industrial engine range was a standout.

"We'd been having some issues with supply from the engine supplier we'd been using in previous years, but we also needed a slightly more powerful engine," Dallas explained to Power News.

"When we realised we could get more power out of a smaller-sized engine with the Yanmar, it was a no-brainer really," he said.

Yanmar's TNV range has always excelled in terms of power-to-weight and is famous for Yanmar's research and development of an engine with injector and fuel chamber design that creates a cleaner burn.

Displacing just under 2 litres, this compact, hard-working yet low noise and vibration turbo-charged diesel engine can deliver an impressive 42.7kW of power at 3,000rpm.

Those are just the kind of figures that are music to the ears of Dallas and Kaidan when designing and improving their multi-purpose chaser bins.

Power Equipment's ability to supply quality engines where other brands have struggled in recent years, and offer expert technical advice, has also helped this Australian manufacturer to stay on top of their game.

Clear Ridge Fabrication design and manufacturer a range of grain handling products.

Winning the prestigious Greater Hume Council award, CRF's SUPA Bin is a multipurpose unit that can assist in sowing, spreading, filling sheep feeders, filling silo bag machines at harvest time and carting bulk grain.

It is a huge time and labour saver for any farmer in the grain game.

The unloading rate, (up to four tonnes per minute!), also makes the Supa Bin an efficient grain transfer option into trucks or bulk storage. As you can imagine, that kind of transfer rate requires good horsepower to make it happen.

With different compartments and a conveyor belt system, grain or fertiliser can be conveyed to the rear of the unit with no contamination.

Experience in grain farming creates a great farming innovation

Traditionally, the Boyd family cropped 3441 hectares of wheat, barley and canola north of West Wyalong in New South Wales, Australia.

When drought took hold, the family made the decision to lease out their farm and the two brothers combined their talents as qualified welders.

"On the farm, we always wanted a bin like this and we had the time and opportunity after leasing the farm to start designing them," Kaidan said.

Dallas and Kaidan's many years' experience in grain farming had them well aware of the dangers in using tipping trucks on unstable paddock environments.

They also identified the long-standing issue of cross contamination when transferring products from a grouper bin system into air-seeders.

Fast forward to 2020 and they had introduced the Supa Tube tubulator.

The Supa Tube attaches to the rear of the bin and can rotate a total of 270 degrees, with a 180 degree working range – the first of its kind in Australia. The tubulator is available anywhere from six metres to 12 metres in length, and unlike an auger, is completely self-cleaning.

This guarantees zero contamination in the whole process of transferring products from the grouper into the seeder.

And of course, tube transfer of materials eliminates the risk of using tipping trucks out in the paddock.

"This is the first of its kind in Australia with these capabilities," Kaidan Boyd says.

Self-contained hydraulic drive packages were built into their Supa Bin and Supa Chaser Bin systems using Yanmar TNV's to help improve efficiency, (for example, allowing the bin and Supa Tube systems to be operated when they are disconnected from a tractor or being towed behind a vehicle without a PTO).

Power Equipment salutes the Boyd brothers and is proud to provide Yanmar power as the engine of choice for this brilliant Australian innovator.

Learn more about Clear Ridge Fabrication and their SUPA Bins at www.crfab.com.au

YANMAR 4TNV84T diesel engine installed in CRF's SUPA bin

JOHN DEERE

RIVIERA Nautic

REPOWERING THE FLEET WITH JOHN DEERE

As the largest charter boat operator in the state, Riviera Nautic has a diverse range of 17 live-aboard motor cruisers and sailing vessels for hire on the Gippsland Lakes, Victoria. Maintenance and ease of turnaround between hires is important for this operator. When a seasoned Clipper 34 model in the fleet needed a repower, a John Deere 4045DFM70 marine diesel was brought in to take over propulsion duties. It's not the first time Riviera Nautic has changed out engines to John Deere and won't be the last.

Life can get a little hectic for the team at Riviera Nautic on the Gippsland Lakes in Victoria, Australia during high season.

"During the busy season, we can sometimes have as little as 3 hours between the return of a vessel and the next charter preparing to cast off," explains owner Cam Johns.

Cam and Sascha Johns own Riviera Nautic, a charter boat company that operates on the beautiful Gippsland Lakes – a system of three adjoining inland sea lakes that cover around 400 square kilometres.

This busy operation proudly boasts a diverse range of vessels for hire. They offer 30 to 38 foot sailing vessels and a number of flybridge displacement cruisers that can sleep up to 10. This year a luxury catamaran will also be added to the lineup.

As could be expected, engine maintenance is a constant duty on this fleet and when one of its older cruisers, the Clipper 34 MV Sunshine needed an engine replacement Cam says the choice was relatively easy.

"We've been replacing a few of the old Ford Lehman engines on vessels with John Deere," explained Cam.

"It just makes sense – they offer a similar performance in a low-revving marine diesel engine and the fit is relatively easy. "They mate well with existing gearbox systems usually so that makes them a good match too," he said.

The Clipper 34's new propulsion came in the shape of the John Deere 4045DFM70 (M2 rating) which utilises the 4.5 litre PowerTech engine behind its 60kW (80hp) of reliable power.

This naturally-aspirated, four-cylinder marine diesel needs little introduction to anyone familiar with the John Deere product – it's a proven block across the brand's range.

With water-cooled exhaust manifold and internal balancers, the 4045DFM70 delivers a cooler, quieter and vibration-free environment for skipper, crew and guests aboard.

But Cam particularly like the easy maintenance and "either side" service options of the John Deere, making life much easier for his team to keeps boats running reliably and safely.

"Our own personnel can service the John Deere engine easily which is a big advantage," Cam explains.

Cam Johns of Riviera Nautic

"Upon each return of the vessels, they are put through a full 130-point check system which includes all the basics on the engines – we are very procedural in those checks and the ease of maintenance and access on the John Deere makes that process smoother," he says.

Dealing with Power Equipment was a bonus in the John Deere decision for the Clipper 34 too according to Cam.

"We looked at a few options when the replacement engine was needed, but the John Deere stacked up best for sure," he says.

"Better still, when the decision was made, Power Equipment had that engine to us within a couple of weeks so the downtime for the vessel was minimised – they are really good to deal with."

The Clipper's is not the first or only John Deere in service with the Riviera Nautic crew though, with two other 4045's powering other cruisers (including a turbo-charged version).

A more powerful John Deere 6068TFM variant, John Deere's six-cylinder, 6.8L marine diesel, was also installed in a Seamaster 36 cruiser in the Riviera Nautic fleet a few years before.

Largest charter fleet in Victoria

Riviera Nautic is one of the longest running boat charter companies in Australia, with 17 liveaboard flybridge cruisers and sailing vessels available for hire all year round.

The Gippsland Lakes – an impressive area of water available for these vessels to explore – is described by the company as "An inland sea, sheltered from the ocean by a thin line of sand dune, and bordered by national park, beaches and farmland, and dotted with quaint, yet vibrant waterside villages."

It certainly provides a safe yet diverse waterway where your boating adventure can provide myriad opportunities to enjoy nature, quiet coves and rivers as much as portside dining, cafes and nights at a quality Australian pub.

With nine staff ensuring charters are booked, prepared, launched and returned smoothly, there is precious little time for problems with marine engines, hence the popularity of the John Deere.

Next time you're down at Metung on the Gippsland Lakes, be sure to drop in on the Riviera Nautic team and take a look at their fabulous selection of vessels for hire.

Who knows – you may find yourself commanding a comfortable cruiser with the sweet hum of a John Deere in the engine room. No experience or skippers licence required!

Check out their large fleet for hire at rivieranautic.com.au for you next getaway.

POWER PROFILE	
VESSEL NAME	MV Sunshine
APPLICATION	Charter Vessel
CONSTRUCTION	Fibreglass
LENGTH	34ft / 10.2m
ENGINE MODEL	John Deere 4045DFM70
POWER RATING	82hp / 60kW

GRAINLINE CALLS ON YANMAR TO SATISFY THE PROFESSIONALS

Superior power, efficiency and longevity was just some of the considerations for Australian manufacturer Grainline when they started looking at diesel engines for their grain handling machines.

After 45 years in business, Grainline is perhaps considered one of Australia's preeminent agricultural equipment manufacturers when it comes of grain handling equipment.

Based and manufacturing in Wagga Wagga and with a depot in Western Australia, these guys know their augers – and they know the power that's necessary to move high volumes of grain efficiently.

"The grain business has just gotten bigger and bigger over the decades," explained Glen Smith from Grainline.

"As grain handling has increased, silos and storage facilities have also gotten bigger and that has meant building the equipment that can deal with those volumes.

Grainline has traditionally used petrol engine options in their stationary, transportable and self-propelled augers.

However recent demands from customers saw the need for a diesel alternative – enter the Yanmar 3TNV series!

Diesel power in demand from commercial customers

"We had customer expectations from professional users around longevity of the engine because of the hours they were putting on the machines in any given year," Glen said.

"There were also some WH&S requirements around reducing risks of combustible fuels, so a diesel engine delivers on that too."

Grain augers generally get a hard life. They sit outside all year in many cases and are expected to work hard during the harvest months which are usually the hottest parts of summer. It's not unusual for these machines to be operated in very dusty, 45 degree celsius-plus days in Australia's wheatbelt districts.

Yanmar's 3TNV engines are no stranger to tough work environments and Grainline has applied both the 3TNV76 (29hp @ 3,600rpm) and the 3TNV88 (37hp @ 3,000rpm) to custom auger setups so far.

Famous for their quick starting characteristics, Grainline customers will no doubt be impressed for years to come with other Yanmar advantages.

While they stand out in performance, these engines are meek in dimensions and weight with the 3TNV76 coming in at just over the 90kg mark and the 3TNV88 only tipping the scales just above 110kg.

The TNV range of industrial Yanmar diesels are about as diverse in variants as the industries they serve, with both naturally aspirated and turbocharged versions. Depending on horsepower and application needs, these vertical water-cooled diesels come in indirect injection, direct injection and common rail injection fuel delivery models.

Grainline admits however that one of the biggest things going for the Yanmar is its "turn key" out of the box readiness.

Power Equipment prides itself on its delivery process, specifically that all Yanmar industrial engines are started, run and bench-tested to specifications at the company's Melbourne facility before they are delivered to the customer.

It's understandable that Grainline would like this "ready to go" factor in the Yanmars, given that all their auger systems are delivered to customers ready to work.

"We had to do minimal changes to our existing design to incorporate the Yanmar which was a big advantage also," said Glen, "and the Yanmars have a range of horsepower that we can grow into if necessary in the future."

The Yanmar 3TNV88 will be powering Grainline's high-volume 1260 auger – capable of filling a semi-trailer with grain in under 10 minutes.

When you're talking about that volume of work, it's understandable that customers expect hard-working, long-lasting power pack on their auger.

To give an idea of just how much work these compact little diesels will be tasked with, one customer has requested a 200 litre diesel fuel tank on their auger!

"Normally we would probably match the Yanmar with a 28 litre fuel tank – we're aware that fuel quality is important in any application and avoiding condensation buildup within fuel tanks is important."

Yanmar passed the 10 million unit production mark on its vertical water-cooled engine nearly five years ago, with fuel efficiency helping the brand dominate in the industrial engine market.

The Yanmar research team's development of specialised fuel injection/atomisation techniques and unique combustion chamber designs deliver fuel economy that will easily see a full day's work (or more!) out of a 28 litre tank.

Find out more about Grainline and their augers and grain handling products at grainline.com.au

For more information on the YANMAR TNV range visit powerequipment.com.au

YANMAR 3TNV88 vertical cylinder water cooled diesel engine

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Walker Seafoods Australia repower with YANMAR for sustainable fishing fleet

The Yanmar 6AY engines continue to be the "go to" engine for hundreds of working vessels in Australia, NZ and the South Pacific. Little wonder too, because these long-stroke, 6-cylinder workers consistently deliver tens of thousands of fault-free hours on the water for all manner of commercial marine operators. Walker Seafoods Australia have repowered three of their hard working vessels with Yanmars.

Walker Seafoods Australia run fishing vessels with operating ranges measured in the thousands of nautical miles – these boats put in the hours! Yanmar's brilliant fuel economy and faultless running has seen Pavo and Heidi Walker and their experienced team repower three of the vessels in their fleet with Yanmar – the latest being the 72ft FV Predator.

When it comes to the high-stakes business of fishing, the right engine is a must.

FV Predator sits at her Mooloolaba base on Queensland's Sunshine Coast. It has been another successful trip for Predator in previous days and her skipper and crew of five take a few days of rest before heading to sea again.

Predator was built originally for the Great Barrier Reef tuna fishery in 2001. She joined the Walker Seafood Australia fleet in 2015 and was repowered with a Yanmar 6AY-WST main engine some months ago.

Pavo Walker, CEO of Walker Seafoods Australia

Already showing the best part of 3,000 fault-free hours on the engine, Yanmar needs no introduction to these long-line fishing experts.

Predator runs some 32 tonnes of refrigerated salt water in two tanks to keep her catch fresh and a 4 tonne bait freezer. The Yanmar runs around 18-20 hours daily during fishing operations, and often a full 36 hours straight, only shutting down for a few hours during rest periods between setting and retrieving lines.

The 6AY-WST 659hp (@1,900rpm) has its work cut out for it in this operation.

Fuel economy is the first and most obvious advantage for a fishing operation running such big hours on its engines. Yanmar estimates the savings to an operator running a consistent 3,000 hours of usage on the 6AY-WST could easily be saving around 15,000 litres in fuel.

That's real savings when fuel tanks need to be refilled and the vessel turned around to continue fishing for another 10-plus days.

"Usually, we are at sea for up to three weeks with one return to harbour in that time," explains skipper 'Leo' during FV Predator's recent turnaround.

The quick turn-around time gives only small windows for refuelling, rebaiting and regular maintenance.

The 6AY-WST holds up its side of the deal back in port, with easy maintenance features like large inspection windows for easy engine management, and avoiding any delicate electronics that brings work to a halt at sea.

While these Yanmars offer a 500 hour service interval, the Walker's fleet usually do an oil change at each return to port. As any good skipper knows, clean oil is good insurance in any engine!

As FV Predator's used sump oil is taken away for recycling and other preparations are made during a few days back in port, its Yanmar is ready for another waxing moon and long haul hundreds of miles offshore.

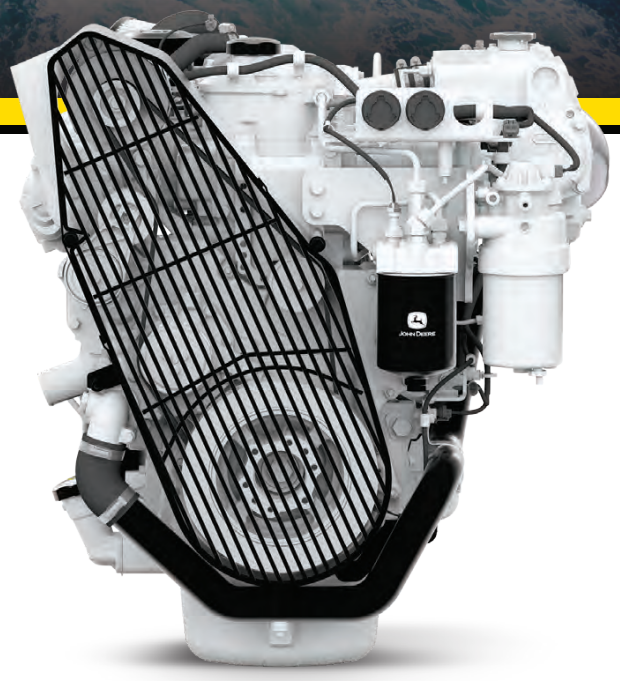
With Walker's MSC certification, they deliver not only a sustainable fishery product, but one that is supply chain traceable. Power Equipment are doing their part to power a sustainable and hard-working operation such as Walker Seafoods Australia and look forward to more Yanmar-driven success for this proud Australian fishing operation.

Check out Walker Seafoods and their sustainable fishing focus at walkerseafoods.com.au

POWER PROFILE	
VESSEL NAME	FV Predator
APPLICATION	Commercial Fishing Vessel
CONSTRUCTION	Composite
LENGTH	72ft
ENGINE MODEL	Yanmar 6AY-WST
POWER RATING	659hp @ 1,900rpm

JOHN DEERE

Leave your worries behind with the power and reliability of John Deere engines



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SANCTUARY COVE INTERNATIONAL BOAT SHOW®

Power Equipment officially launched two new products and had a bigger presence than ever at this year's Sanctuary Cove International Boat Show. Great crowds and unparalleled displays of marine power at this world-renowned Gold Coast boating extravaganza has once again provided a valuable platform for Power Equipment.

The 2024 Sanctuary Cove International Boat Show saw bumper crowds in attendance and exciting new product exposure opportunity for Power Equipment.

With the new Smartgyro product on display at Power Equipment's main site along with its other flagship products and the new Cox 300hp diesel outboard in the on-water marina area, show goers had a veritable "feast" of products to get amongst.

The usual team of Power Equipment expertise was on hand to answer questions about marine power options available.

Amongst the bonus product exposure at this year's SCIBS was D'Aprix Marine Services with Yanmar marine diesels on display, Tasman Boats featuring the brilliant Yanmar 8LV common-rail diesel in their trailerable game boat and a stand-alone display in the main tent area for Torqeedo.

Power Equipment fielded a constant stream of enquiries at its main site and good weather made for an upbeat event for all.

Western Australia's Nick Marsden was on hand during the Gold Coast event and takes the opportunity each year at SCIBS to reacquaint himself with the market in the "eastern" part of the country.

"Our sales are good in Western Australia, but the Sanctuary Cove show is always an eye-opener," says Nick.

"We field a lot of enquiries – both from existing customers and potential new clients," Nick said, "and the orders for new engines were coming in."

Undoubtedly a barometer of the Australian boating industry as a whole, SCIBS this year had more than 40 extra vessels on display in the marina section alone.

This indicates a healthy trajectory for the marine sector in Australia – particularly in recreational boating of which the Gold Coast event is primarily focused.

Johan Hasser, General Manager of Mulpha Events (SCIBS organisers), said his team was overwhelmed with the public response to the 35th show and delighted with the results reported by exhibitors.

"SCIBS is about building relationships with marine enthusiasts, it's the show where the marine business does business, and we are confident that this year's show has done exactly that for our 335 exhibitors," he said.

Smartgyro takes centre stage

With Power Equipment's official launch of the Smartgyro distributorship this year, this innovative new gyro stabiliser brand took front and centre in the Power Equipment site.

With a fully accessible Smartgyro stabiliser on display, visitors were able to get up close and personal with this brilliant new product on the Australian market and talk to an expert about its operation and installation.

With Smartgyro currently offering six vessel stabiliser models, (suitable for vessels from 13m to 30m), the brand's advanced technology virtually eliminates boat roll in any sea conditions.

The Smartgyro boasts the ability to be fully serviced onboard, (lowering maintenance time and costs), and increases overall efficiency via a flywheel that operates within a vacuum enclosure. This system reduces drag, lowers heat and uses less power to operate.

Smartgyro in fact enjoys a strategic partnership with Yanmar and are big on research and development. The company promises a range of new products in the future, no doubt positioning Power Equipment to continue at the forefront of supplying state-of-the-art innovation to the Australian marine market.

Preparations are already underway for Power Equipment's inclusion in next year's Sanctuary Cove International Boat Show where even more new products are expected to be launched. Stay tuned!

Pieter Feenstra from Smartgyro (left) & Nick Law from Power Equipment NZ

Yanmar 8LV installed in Tasman Boats

Nick Marsden from Power Equipment's WA branch

Some of the Yenda Prods Irrigation crew with a custom John Deere powered pumping solution

YENDA PRODS IRRIGATION & JOHN DEERE ALLIANCE CREATES MIGHTY PUMP OPTIONS

Yenda Prods Irrigation, (previously known as Riverina Water Engineering), are no stranger to the water-moving power of John Deere engines, regularly using the powerful 6068 John Deere engine on agricultural pump builds requiring big water movement. Even the king of Power Equipment's John Deere industrial engine lineup, the 500hp 6135, has been applied to their larger scale builds. This expert team in irrigation have also applied the smaller sidekick in the John Deere engine range to a popular pumping solution – the John Deere 3029. Damon Cammish of Yenda Prods Irrigation explains why.

"The John Deere 3029 is a strong engine – a simple mechanical engine really," says Damon Cammish of Yenda Prods Irrigation.

Damon says Australian-made KY Pumps coupled with John Deere engines make for a formidable agricultural machine. Certainly a combination that Riverina farmers in New South Wales, Australia, are putting their trust in.

"The John Deere power is usually an easy sell for farming professionals too," says Damon, "because they know the backup is there and of course the reputation as a good engine."

Damon has been matching the John Deere 3029 (57.7hp) since 2016 in up to 12 inch pumping units for lift pumps utilised in all manner of crop irrigation and other farming across the districts Yenda Prods Irrigation serves.

"There is a lot of cotton and rice in this district," Damon says, "but irrigation and water provision applications are many and varied."

Farmers love the KY Pumps attached to a John Deere because they're robust and can handle tough tasks.

The John Deere 3029, which makes all this tough work happen, is a compact 2.9L vertical water-cooled diesel engine.

Supported by five main bearings, the dynamically-balanced crankshaft of the John Deere 3029 drives machinery from the front of the engine.

The smooth power delivery of this design is further enhanced by the engine's 45-degree, forged steel connecting rod design that allows the use of large connecting rod bearings for increased durability.

Add to this replaceable wet-type cylinder liners and you have an engine that is made to last, and is incredibly easy to service and maintain.

Understanding just how the John Deere's are expected to perform makes it clear why a strong, long-lasting engine is vital in this type of farming activity.

"Typically the engine would be revved up hard in the priming process of getting the water into the pump and irrigation system, then throttled back to move the volume of water necessary over a certain number of hours," Damon says.

> **"Cotton fields, orchards - even chicken farms need lots of water!"**

Volume is the name of the game here.

"The largest pump we would couple the John Deere 3029 with would be the 12-inch KY Pump and that could be expected to deliver 20 million litres in a day."

"We try to keep the engines working within 50% to 75% of their load delivery, because that also gives space for harsher operating conditions or higher temperatures," Damon explains.

"But every application has differing power requirements, so we design the systems to suit" he said.

Yenda Prods Irrigation ensures their custom irrigation packages are coupled with the right radiators and exhaust systems with their John Deere engines.

They continue the "simple design" philosophy by usually applying vernier throttles, (with dial adjuster for finer throttle control).

"We find the farmers usually prefer this, again because it's simple but still gives fine tuning ability," Damon said, "although automated control is sometimes a preference – it depends on the operation."

Whilst it may seem simple enough to apply power to a pump through a front flywheel and crankshaft application, Damon Cammish knows better.

"We design side-load kits for belts running the pump basically," he says, "this takes the pressure off the crankshaft of the engine when you tighten the belts to run the pump properly and increases the engine's longevity."

Fundamental design principles of good stand-alone pumps may not have changed in many decades, but every application is as diverse as those serviced in the Riverina by Yenda Prods Irrigation.

From cotton fields and orchards to vegetable farms – even massive chicken farms - need lots of water.

"The running regime of the pump decides a lot of the design factors," Damon says, "How harsh will its environment be? Will it be expected to run 8 hours or 16 hours straight? We have to factor all of this in, not just the amount of water to be moved."

One thing is for sure though, the Riverina area will be getting the power it needs through the combined expertise of Yenda Prods Irrigation and Power Equipment.

Find out more about Yenda Prods Irrigation and their services at rwe.com.au

John Deere 3029 diesel engine

Customised John Deere powered water pump

Some proud members of Yenda Prods Irrigation

The Yenda Prods Irrigation crew in action

DTORQUE RELIABILITY

ADDED TO RECORD-HOLDING ADVENTURE TRAWLER

The Neander Dtorque 50hp diesel outboard has a surprising range of special abilities and lends itself to unique applications. Its versatility has seen it embraced by commercial and private vessel owners alike. Perhaps one of the Dtorque's more unique installations is on the private expedition vessel MV Idlewild. The owners of Idlewild modified their amazing adventure machine with the help of Bundaberg Marine Maintenance to cater for a Dtorque as backup propulsion.

There are not many expedition trawlers like MV Idlewild in your average marina, particularly ones with a new Dtorque diesel outboard from Power Equipment.

You certainly won't come across many vessels that hold the kind of record she does either!

Idlewild is a 55ft aluminium, narrow-beam trawler designed by renowned yacht designer George Buehler in 2003 to cover ocean-crossing miles under engine power.

She certainly lived up to that, attaining the record for the longest non-stop ocean passage by a trawler yacht in 2006, running some 4,495 miles from East London in South Africa to Fremantle, Western Australia in just under 30 days.

Her original owner at the time wrote of that trip; "We haven't seen a ship for almost 3,500 nautical miles. This is a lovely, lonely, lively ocean."

Lively adventures have seen Idlewild's new Canadian owners Tex and Grete Fimrite seek out a number of modifications since – most recently a redesign of its duckboard to accommodate the backup propulsion of a Dtorque diesel 50hp outboard.

Given that this long-range vessel only runs a small (55 horsepower) diesel inboard as her main propulsion, the Dtorque's 50 horsepower and healthy torque output (111Nm) is a worthy backup engine.

Efficient hull helps Dtorque shine

The narrow beam and a draft of $3^{1/2}$ feet were deliberate design imperatives on Idlewild. These dimensions allow highly efficient motor cruising with the ability to traverse shallow river systems.

The design also made her safer in ice-prone seas and allowed for her to be dolly-trailered or deck freighted easily if necessary during her globe-trotting.

Continuing adventures like expeditions to the Antarctic and other remote trips, the decision was made to add the safety and capability of a Dtorque diesel outboard as auxiliary propulsion.

The job to add the Dtorque to Idlewild was taken on by Kent and Ryan Noble of Bundaberg Marine Maintenance. Idlewild currently sits at the Bundaberg Port marina facility in storage and turns many local and visiting heads alike when she is in the water!

Ryan Noble of Bundaberg Marine Maintenance says "We fitted a jacking plate to mount the Dtorque so that it can be fully clear of the water when not in use."

Given that the Dtorque utilises the vessel's existing diesel tanks, some extra thought went into the fuel supply also. "It was around 11 metres from the diesel tanks to the outboard, so we installed a fuel lift pump between the tank and the primary fuel filter," explained Ryan.

The Bundaberg Marine Maintenance team aren't afraid to take on projects with a bit of difference like the Idlewild's Dtorque addition.

Sea trials of the Dtorque proved just how much the smooth output of this twin-cylinder, turbo-charged diesel outboard delivers.

"We got the best part of 8 knots out of the Dtorque during sea trials – it was very impressive. The outboard pretty much gives it similar performance to the main engine!" Ryan said.

While the Dtorque addition to this 55 footer may seem unusual at first glance, the outboard's design and abilities offer a world of advantages.

The Dtorque has literally hundreds of thousands of engine hours in the field, (on top of the Neander's own testing), and is a proven performer.

Also proven is an incredible fuel efficiency.

In an industry showcase event of the Dtorque 50hp run by Power Equipment, the outboard sipped a tiny 11.5L per hour at full throttle, and much less at lower revs.

In fact, Neander says the Dtorque delivers at least a 40% better fuel efficiency than its petrol counterparts and significantly less downtime with a 250-hour service interval.

With full compliance with EU RDC Stage II regulations, the Dtorque 50 is a low emissions outboard engine. Besides using less fuel than equivalent petrol outboards, a huge advantage to running a Neander Dtorque 50 is its ability to access low emissions zones – something the Idlewild is designed to do.

For more info on the Dtorque diesel outboard range visit powerequipment.com.au/dtorque

POWER PROFILE	
VESSEL	MV Idlewild
APPLICATION	Expedition Trawler
CONSTRUCTION	Aluminium
ENGINE MODEL	Dtorque 50
POWER RATING	50hp @ 2500rpm / 111Nm torque
TOP SPEED	8 knots

Kent & Ryan Noble of Bundaberg Marine Maintenance

KEEPING OUR CUSTOMERS ON THE MOVE

Above: The Power Equipment Parts team. From left: Mike Candy, Berty Collinson, Luke Le Gros, Jake Johnson, Cassandra Clark, Ian Keizers, Sarah Candy & Kelsey Davies

Power Equipment's Spare Parts department is one reason for the company's success in Australia. Its commitment to availability, expertise, logistics, customer support, and cost savings ensures that customers can rely on their Power Equipment engines to deliver consistent, reliable performance year after year.

It's another busy day at Power Equipment's spare parts department in Melbourne, as hundreds of orders are quickly and meticulously picked, packed and dispatched.

In fact, every day is a busy one for the spare parts team.

The spare parts department occupies the heart of Power Equipment's head office and warehousing facility. But it is in essence the hub of a much larger network of parts availability and advice – serving a network of around 400 dealers across Australia.

A significant advantage is the expertise of the Power Equipment staff. They are not just salespeople but specialists with deep knowledge of the engines and systems they support. This expertise translates into accurate recommendations and fast resolutions to parts-related problems.

National Parts Manager Jake Johnson runs a tight team of eight specialists at Power Equipment.

"The best part of the job here is the team we've got, to be honest," Jake says.

"We've got people who not only know the parts, they're focus is on what we need to deliver on a daily basis – it's all about service and our team have a great focus on helping our customers."

Attitude and expertise are great, but those core abilities are streamlined with some superb in-house systems at Power Equipment that placed the company's parts service into the 21st century some years ago.

Power Equipment holds in excess of 3,500 line items, with upwards of 40,000 individual parts in stock at any one time.

Technology delivers parts accurately

Power Equipment invested in a "Lean Lift" system some years ago, an automated parts sorting and storage system that, as Jake puts it, is just like a big vending machine.

Assistant Spare Parts Manager Luke Le Gros

You really need to see the scale and efficiency of these machines in action to truly appreciate their abilities.

The lift is housed within a four-storey high structure in a central part of Power Equipment's main warehousing facility, and is made up of six separate "lift" machines each comprising 80 large shelves.

Parts info can be entered and within seconds the relevant shelves will make their way down to the collection area. Truly automated genius on an impressive scale.

"So when an order for parts needs picking, we input the order into the machine and the shelves automatically move the parts to you," Jake explains, "the system even directs you to the relevant compartment within that shelf that holds the parts."

Considering an average parts order may comprise up to 40 items, there's plenty of replenishment of the Lean Lift system happening each day as well!

"It's not just replenishing the parts lift system, but also constantly checking that parts are in the correct location so that all parts picking runs smoothly," Jake says.

One of the standout benefits of Power Equipment's spare parts department is the assurance of availability. Customers rely on their engines for critical operations, and when a part fails, time is of the essence. An extensive inventory means that spare parts are always on hand, reducing downtime for businesses that depend on Power Equipment products. Whether it's a small gasket or a complex engine component, the department is usually stocked to meet any need quickly and efficiently.

Dealer Connect Portal creates a "nationwide" parts team

"While we have a great team of parts interpreters, stock controllers and warehouse pickers here, it's the local dealers who are the best first port of call for parts advice," Jake says.

Power Equipment's extensive dealer network across Australia and New Zealand are the strength behind its products and can connect with Jake's spare parts department via the online Dealer Connect portal. It's the go-to system that allows ordering, interpretation and delivery of any part for a Power Equipment engine or product to happen seamlessly.

"Dealers can see the price and availability of any of our parts and they can even track their order as it's dispatched.

"We aim to get any air-freightable item to the dealer or customer direct overnight," Jake explained.

"Even superseded engine parts or specialist items that may need to come directly from our manufacturers, we can usually source it and have it delivered within 7-10 days. Our networks are very good," he said.

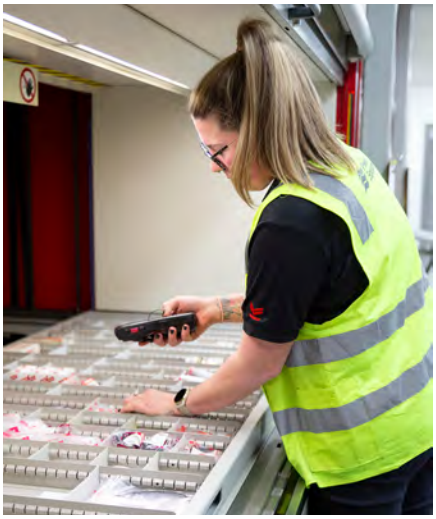
Perhaps the most satisfying aspect of Power Equipment's dealer network is the ongoing improvement and updating of their knowledge around the products they sell and service.

"We're proud representatives of Yanmar, John Deere and other premium brands," Jake says.

"Likewise, we are building our dealers to have the same knowledge, but of course if they are unable to answer a customer's query, we're always here to help."

The spare parts department contributes to cost savings for customers. By ensuring that genuine, high-quality parts are readily available, Power Equipment helps end users avoid the pitfalls of using cheap or inferior alternatives. Properly maintained and serviced engines using the correct spare parts last longer, operate more efficiently and reduce the risk of breakdowns.

In turn, this minimizes the total cost of ownership for customers, enhancing the long-term value of their investment in Power Equipment products.



Parts team member Kelsey working the Lean Lift system

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YANMAR'S GLOBAL SERVICE AWARDS 2024


Jim Kibblewhite working on a Yanmar marine engine

Earlier this year, our very own Jim Kibblewhite had the honour of receiving Yanmar's Service Award. Jim is an integral part of our Engineering Support team, assisting our customers and dealers with all sorts of technical and installation enquiries.

The "Yanmar Service Awards 2024" was hosted by Yanmar Global Customer Service (YGCS) and held at Yanmar's home in Osaka, Japan.

The awards ceremony brought together outstanding Yanmar service staff selected from all around the world, and was a bright event in which all participants honoured the winners and deepened exchanges across national borders and Yanmar companies.

Jim headed over to Yanmar HQ in Japan back in March where approximately 200 people attended the event, including Yanmar Holdings board members and presidents of group companies from around the world, who sent their appreciation to the award winners.

This year, the ceremony started off with an inspiring opening film themed around "Challenging towards better service" and the Japanese concept of "HANASAKA" – a concept adopted by Yanmar and focusing on embracing challenges and nurturing talent. Mr. Hirami, President of YGCS, emphasized the importance of continuous innovation in customer service during his speech:

"Based on the values of HANASAKA, which encourages all people to take on challenges and to nurture people and businesses, I would like to share the activities and challenges of our staff around the world involved in the after-sales service area, and I would also like everyone to take on the challenge of making the next flower bloom."

A total of 66 service professionals from 27 different companies in Yanmar's global network were recognised and awarded for their ongoing dedication and innovation to Yanmar's customers.

The event also featured insights into successful service strategies, offering a great opportunity to share experiences from various countries and applications.

The event wrapped up with a celebration dinner where even more ideas were exchanged and relationships strengthened.

This award is great recognition for Jim's, and Power Equipment's dedicated Engineering Support team's, commitment to helping our customers, no matter what the issue or application is.

Yanmar's Global Service Award winners 2024


Yanmar Global Service Award winners visit Yanmar HQ

BRIDGEFORD GROUP ACQUIRES 3E GROUP TO FURTHER ENHANCE NET ZERO CAPABILITIES

The team at Bridgeford Group is dedicated to sustainable energy solutions. With this in mind, Bridgeford Group recently acquired 3E Group, a leading Energy Services Contracting Organisation. The firm focused on implementing energy efficiency, power quality and renewable energy projects.

While Bridgeford Group's core offerings and specialities remain unchanged, their recent strategic acquisition has significantly expanded their overall capabilities. They now have a dedicated implementation arm that oversees project installations, ensuring a seamless process and providing guaranteed savings for their customers through comprehensive measurement and verification (M&V).

Additionally, their new automation business collaborates with existing providers to enhance control of building operations.

Furthermore, subsidiary Total Power Solutions, provides monitoring and installation of power quality and sub metering equipment.

With the team's combined experience across advisory, design, implementation and monitoring, Bridgeford Group is uniquely positioned to further help their clients on their path to achieve Net Zero.

With growth comes experience

Another great outcome of this acquisition is the wide scope of complex projects the team have worked on over the years. Prior to the merger Bridgeford Group has been recognised for engineering excellence on key projects.

Some of these projects include the award winning $2.3m electrification upgrade to the ESTA000 emergency call centre, enhancing energy efficiency and occupant comfort. This was all completed while ensuring the facility retained 24/7 operational capabilities.

At La Trobe University, a $4.5m upgrade was completed that eliminated the reliance on natural gas and improved energy efficiency across multiple buildings.

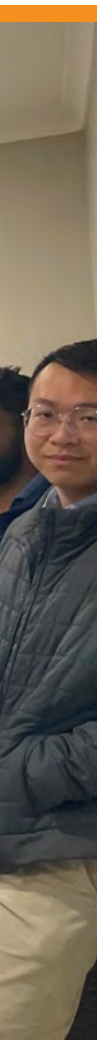
3E Group have seamlessly integrated into the Bridgeford Group business to form one cohesive team that not only design but also implement solutions.

Highlights of the expanded portfolio include delivery of an $8.1m energy performance contract with Nepean Blue Mountains Local Health District. This includes extensive energy efficiency upgrades across multiple hospitals, including installing over 1,000kW of solar power, guaranteeing energy savings of $1m.

❝ This is a landmark project which will set the benchmark for energy savings in the health sector, providing a framework for emissions reduction that can be rolled out across NSW's health facilities. ❞
Scott Hanson - Energy and Sustainability Partner at Nepean Blue Mountains.

The organisation has also implemented a $3.3m energy performance contract for Mt Isa City Council, with energy upgrades that will guarantee savings of over $360,000 and reduce over 1,540 tonnes of CO_2 emissions. This project includes over 580kW of solar capacity and a 27kWh battery storage system.

In Perth we've helped investors increase the occupancy of their commercial office building without any upfront capital investment. Through their funded upgrade model, the organisation undertook a range of energy upgrades that lifted the building from 0 to a 4-star NABERS rating. The owner pays back the



cost of the project over time with an annual service fee improving cash flow.

Partnering with Australian Unity, the team developed Net Zero roadmaps for 45 of their assets, including hospitals, aged care centres, medical clinics and office buildings. Solutions proposed are practical and deployable immediately. These assessments support the organisation's capital works program against sustainability targets for corporate reporting.

Staying ahead of the curve

Bridgeford Group is committed to staying at the forefront of emerging legislation. Recent government mandates regarding climate-related financial disclosures have been designed to position Australia as a competitive destination for global investment.

Under these regulations, listed companies, financial institutions, and asset owners with over $5 billion in managed funds will be required to disclose their climate-related risks and strategies. The phased implementation of this legislation, starting in January 2025, will align Australia with international standards within the EU, UK, and other jurisdictions.

Bridgeford Group recognizes the significance of these disclosures, and as the landscape of sustainability reporting evolves, Bridgeford Group is dedicated to working with clients and their advisors to leveraging these changes for sustainable growth.

A key enabler for monitoring and measuring emissions come with Bridgeford Group's platform Trident. The team supports key clients including BUPA to childcare centres, local health districts and councils to monitor and manage their utility and carbon output through an easy to access online portal.

Their portfolio showcases a variety of projects aimed at improving energy efficiency and reducing carbon emissions, from upgrading mechanical systems in emergency call centres to implementing energy performance contracts for local councils and nation-wide health services.

By working collaboratively with clients, Bridgeford Group aims to contribute to a more sustainable future, supporting efforts to achieve Net Zero and promoting resilience within the communities they serve.

The Bridgeford Group Story

Bridgeford Group, part of the Power Equipment group, was a passion and dream started by Power Equipment's CEO Luke Foster and award winning engineer Nick Tassigiannakis.

It all began at university, where Nick and Luke studied Aerospace Engineering together. Fast forward a few years and Nick provided his design and energy expertise for Power Equipment's 99kW rooftop solar energy system.

This initial project, and its success, led Luke and Nick to form Bridgeford Group. Five years later and the firm has helped hundreds of property owners, businesses, education institutes and government departments meet their energy goals, sustainability needs and assist them on the path to Net-Zero.

Find out more about the story at bridgefordgroup.com.au

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