ZEROJET | COMPANY PROFILE

ZEROJET

No compromise electric boating

ZeroJet's on a mission to eliminate combustion engines on water. Based in Auckland, New Zealand, our team of talented engineers have built the highest performance, low weight EV powertrains the world has ever seen. Our technology is rapidly being adopted by global marine organisations like Highfield Boats (the world's largest RIB manufacturer) who are crying out for better electric alternatives that do not sacrifice power and performance. ZeroJet's systems stand above all electric propulsion systems and are the true challenger to petrol marine combustion engines.

What originated from designing and building a recreational electric jet board, this pocket rocket system was quickly reconfigured as a 'plug and play' electric jet system for small boat manufacturers. Since 2023, ZeroJet's powertrain continues to showcase its technological strength, such as its incumbent OEM 25hp outboard - the highest power-to-weight electric outboard in existence.

Momentum is with ZeroJet; the span of our technology adopters is very early stage. We're a new player. Beyond boat manufacturers, ZeroJet, in partnership with interested brands, is exploring multiple marine market uses, including autonomous vehicles, research, survey, and defense.

Numerous ventures are in development across the marine market, showcasing the proven deployment of ZeroJet technology. It's impossible to drive our jet systems without a smile, and our outboard powertrains are unbeaten. This is how ZeroJet will take the world of marine propulsion electric, through no compromises in performance, reliability, and fun.

Finally a solution for small boats which compares to a petrol equivalent.

WHAT SETS US APART

Low Voltage + High Power

You don't often hear "low voltage" and "high power" in the same sentence, and there's a reason for that – it's incredibly difficult to achieve. Everyone wants low voltage and high performance, but it's a challenging combination.

Low voltage is safer, which is crucial for marine safety. High voltage systems present a significant risk of electrical shock in these wet environments, making low voltage the preferred choice wherever possible.

Current 48V options on the market are slow and lack the necessary performance for planing and petrol like use. Running high power at low voltage generates a significant amount of heat, which can melt cables and terminals. This is why existing 48V systems are limited to slow and low-power configurations.

ZeroJet has solved this challenge. Our powertrain can operate safely and efficiently at low voltage without sacrificing performance. Our 48V motor delivers 20kW of continuous power, making it 61% lighter and 33% smaller per kW than existing electric motors.

With ZeroJet, the marine industry no longer has to choose between safety and performance. Our system sets a new standard in marine propulsion.

Unseen
power to weight

A new standard in
electric propulsion

MARKETS ENGAGING WITH ZEROJET TECHNOLOGY

Powertrains in multiple markets

Recreational Boating

Small to medium-sized boats benefit from enhanced manoeuvrability, quiet operation, and ease of use, aligning with a market projected to grow at a CAGR of 8.2% from 2021 to 2028.

Personal Watercraft

Jet skis and similar watercraft achieve improved acceleration, reduced emissions, and lower maintenance compared to traditional engines, in a segment expected to reach USD 3.3 billion by 2027.

Tenders and Dinghies

Ideal for larger vessel support, offering compact size, environmental friendliness, and ease of storage amidst a growing preference for electric propulsion solutions.

Electric Boats

Supporting the expanding market demand for sustainable marine solutions, with projections exceeding USD 20 billion by 2027, the unit enhances efficiency and sustainability in new boat designs.

Water Sports Equipment

Enhances performance in electric surfboards, hydrofoils, and other water sports equipment, catering to environmentally conscious enthusiasts.

Small Commercial Vessels & Tourism

Offers efficiency, low operational costs, and reduced environmental impact for tour boats, water taxis, and eco-tourism operators.

Autonomous Vessels

Adaptable for science research, survey & defense roles, offering silent operation, reduced heat signatures, and lower lifecycle costs compared to traditional propulsion systems.

20kW Jet Propulsion System

FOR BOAT BUILDERS

- Specifically designed and optimized for high-torque electric motors.
- Tuned for small boats traveling at slower speeds (<20 knots).
- Ensures efficiency at lower speeds, unlike traditional high-speed jet pumps.
- Super B batteries rated to 3,500 charge cycles at 100% DoD.
- 5 kWh pack weighs approximately 50 kg

20kW Outboard DIRECT TO DISTRIBUTOR

- Rated Power 20 kW (25hp)
- Voltage 48V
- Weight 38kg
- Charge Time 1 hour fast charging, 3 hours regular charge
- Top Speed 20 knots and Range 16 knots: 14NM
- Reduced maintenance and servicing

20kW OEM Drive System

FOR OEMS

- The 20kW OEM Drive System for mobility and agricultural solutions.

BRANDS ENGAGED

HIGHFIELD

Argos Nautic

OTHER BOATS BUILDERS IN DEVELOPMENT

OCD OFFSHORE CRUISING TENDERS

prestol


CURIOSITY


HIGHFIELD
ZEROJET


Rapide

TEAM

ZeroJet, a team on a mission.

Our vision is to eliminate combustion engines on small watercraft.
We believe electric solutions should not sacrifice power, safety and fun.

To ramp up electric outboard adoption worldwide ZeroJet set out to create powertrains that captures the thrilling and practical power of petrol outboard engines and pack that punch into a safe, clean electric system.

No compromise electric boating.

Headquartered in Auckland New Zealand, ZeroJet has had a global focus since day one. We have a growing sales and support center in South Hampton, UK to better serve increased demand from our European customers. In 2023 the team were proud to win NZ Startup of the year.

TEAM

Exec Team

Mark Robotham

CEO

Seasoned scale up manager of hardware companies. Took Manta5 from zero revenue to $20M of sales over the covid period. Sales Manager. Photographer.

Bex Rempel

CFO

Master of fund raising, process and systems improvement and finance. Second in charge, Co-founding CFO of ZeroJet. Kite surfer adventurer.

Neil Mans

VP MARKET DEVELOPMENT
CO-FOUNDER Product visionary and

co-founder. Usually found at boat shows around the world, master of boat builder relationships. Kite Surfer and anything marine enthusiast.

Ivan Steenhuyse

HEAD OF OPERATIONS

Head of manufacturing, support and logistics. Managers the international supply chain. Ex Vesper (acquired by Garmin) marine operations. Ocean sailor.

Dris Adradi

HEAD OF ENGINEERING

Creating structure to our innovative product development programme. Brings decades of design for manufacture from Invenco, NextWindow, Navman (acquired by Brunswick) and other previous technology winners. Musician & VW nut.

BOARD

Karl Smith

CHAIRMAN DIRECTOR

Professional director, ex board member Hamiton Jet

Chris Baird

INDEPENDENT DIRECTOR

Marine business specialist consultant. Ex CEO Fusion that was acquired by Garmin

Mark Stuart

DIRECTOR / SHAREHOLDER REP

Partner Movac VC fund, NZ's largest VC fund

TECHNOLOGY

Robust and reliable high performance technology

Essential for marine applications

HOW WE DO IT

ZeroJet is a leader in the marine industry, excelling in several critical areas

- **Low Voltage Expertise**
- **High Performance Motors**
- **High Performance Jets**
- **High Performance Outboards**
- **Smart Control Systems**

Proprietary motor technology is key to our performance advantage

To maximise performance **ZeroJet Sytems** require a power source capable of high continous discharge current. Our partner **Super B**, Netherlands have batteries that meet our high safety and Performance criteria.

Super B is a leading innovator in advanced lithium battery technology, specializing in **Lithium Iron Phosphate ($LiFePO_4$)** batteries known for their safety, long life, and exceptional performance.

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