



PHOENIX ONE

# NAVIGATING THE SEAS OF MARITIME INNOVATION

## PHOENIX ONE

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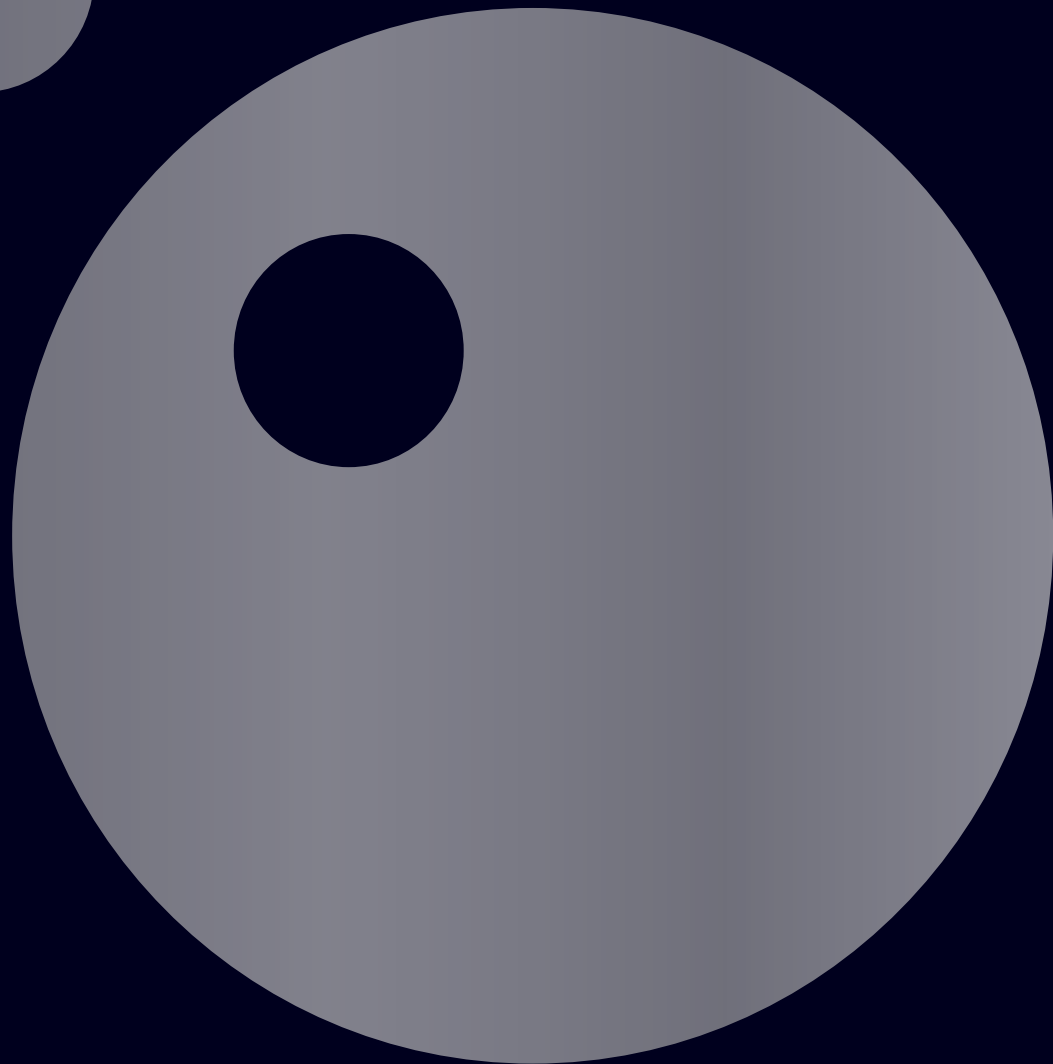
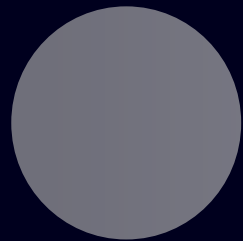
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PHOENIX ONE

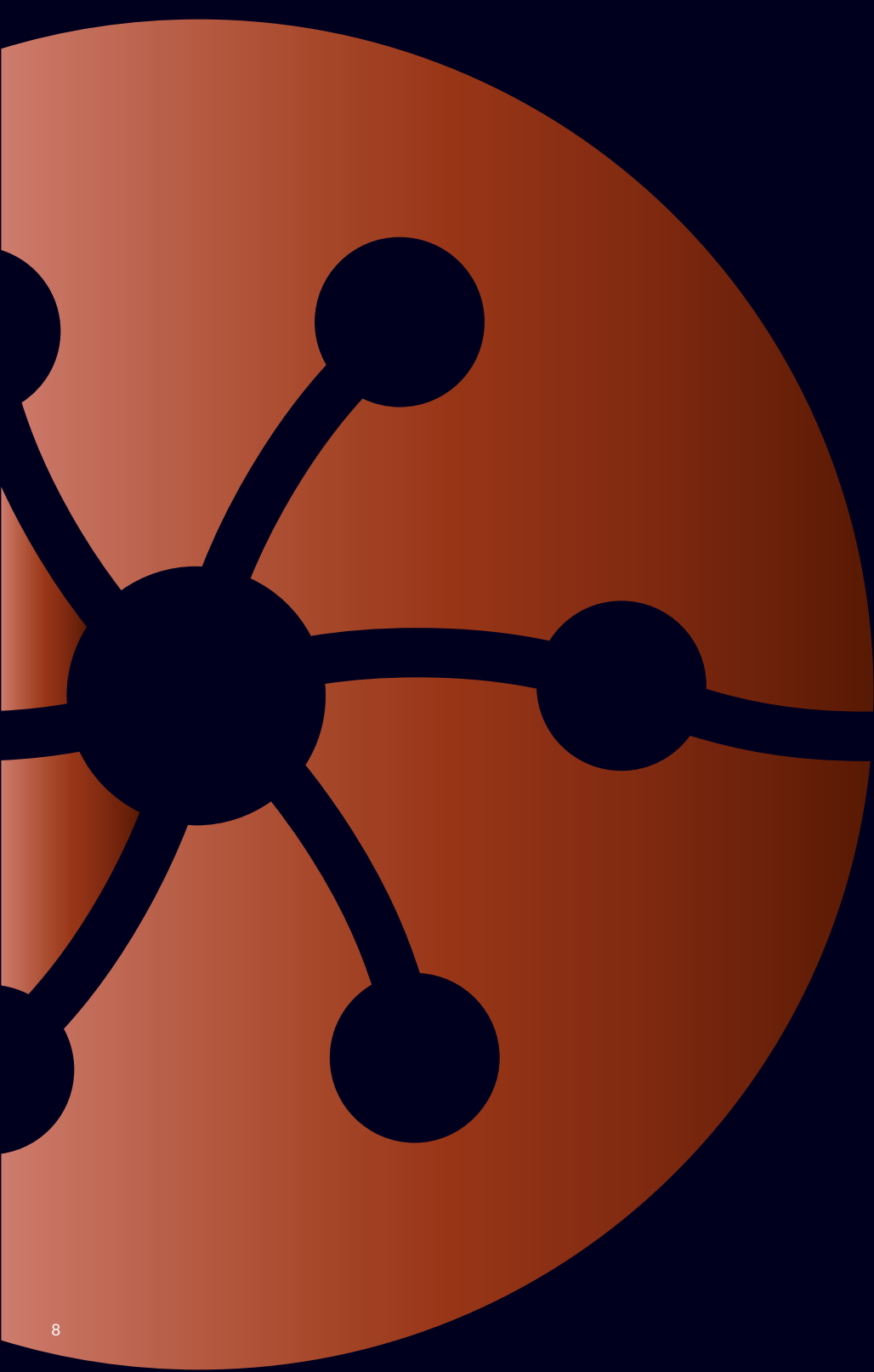




## THE RACE TO ZERO-EMISSIONS

Welcome to Phoenix One, where we lead the charge in transforming the yachting industry. Through our pioneering battery power systems, hybrid propulsion solutions, and fully electric systems, we're reshaping the future of yachting. Committed to sustainability, efficiency, and fostering a greener tomorrow for our oceans, we deliver cutting-edge technologies to yacht owners and operators worldwide. Join us in sailing towards a brighter, more sustainable future.





# SILENT POWER

# SILENT POWER



## Advanced Battery Power Systems:

We specialise in cutting-edge battery systems for yachts, prioritising the elimination of generator noise for a tranquil experience on board. Our advanced technology ensures seamless power distribution, allowing you to run the generator less frequently while maintaining optimal operations. Sail confidently with our eco-friendly solutions, significantly reducing emissions and fuel consumption for a quieter and cleaner marine environment.

## KEY FEATURES

### Enhanced Comfort:

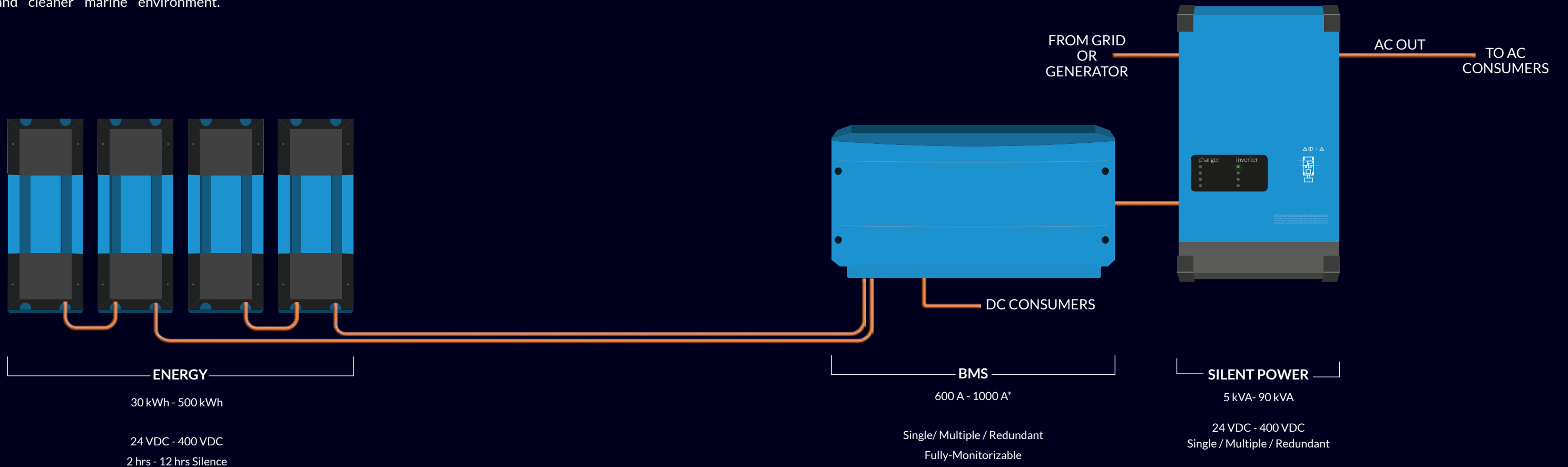
Experience serene tranquillity with Phoenix One's Silent Power, eliminating engine noise and vibration for uninterrupted relaxation.

### Environmental Benefits:

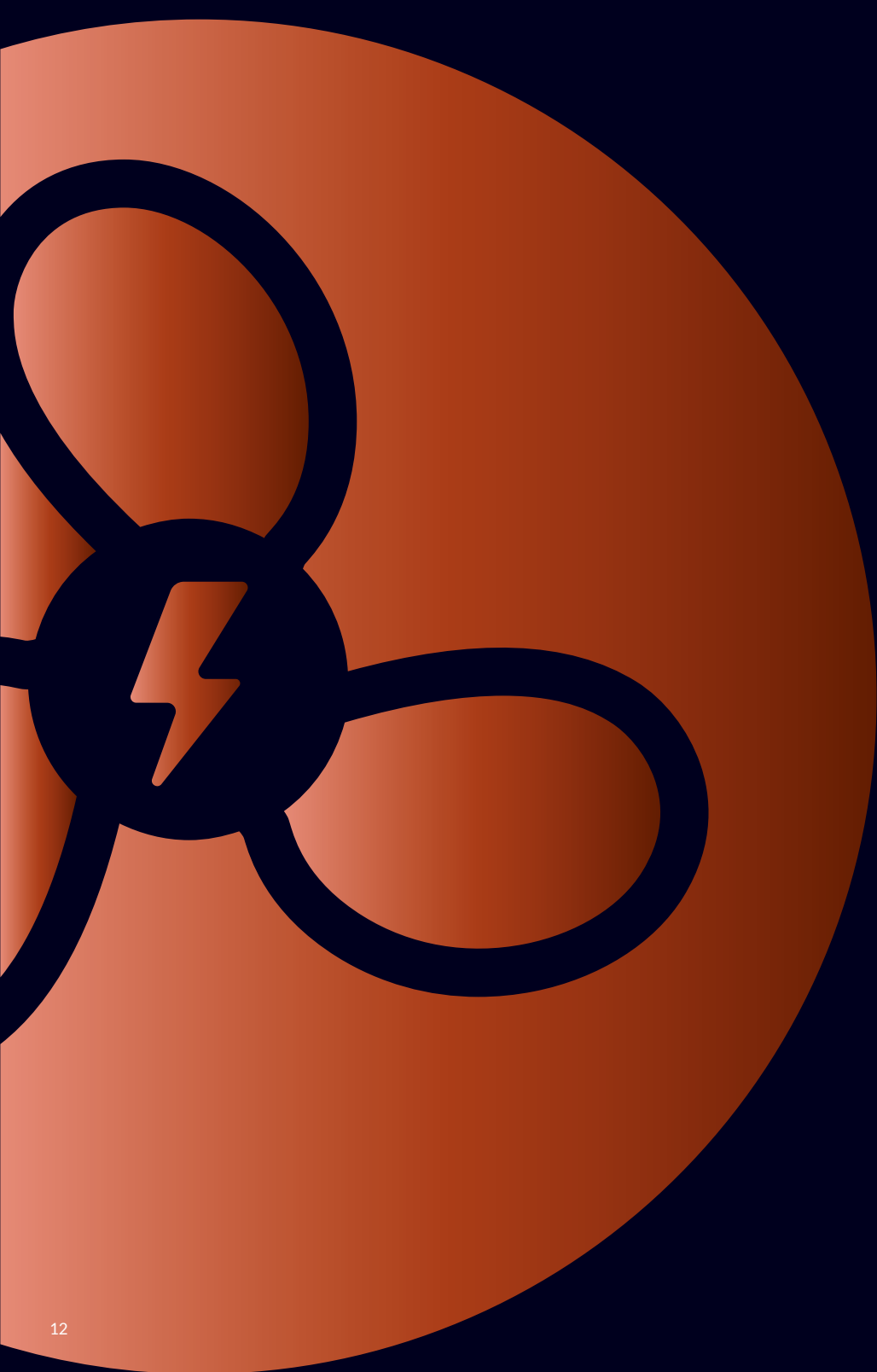
Enjoy a luxurious yachting experience with our advanced technology that prioritises sustainability without compromising luxury.

### Unparalleled Yachting Experience:

Dive into the ultimate yachting adventure with Phoenix One, where every moment is extraordinary - swim, dine, and relax without the hassle of fumes or vibrations.



\*Current per single unit



# SILENT PROPULSION

# SILENT PROPULSION



Experience silent cruising and enhanced manoeuvrability with our hybrid or fully electric propulsion systems, designed to prioritise low operation costs and minimise maintenance needs. Benefit from significant fuel savings while enjoying reduced vibration and wear and tear on your yacht. Our expert team will seamlessly integrate these systems, ensuring maximum efficiency and longevity for your vessel. Sail with confidence, knowing you're optimising your resources and minimising operational expenses.

## KEY FEATURES

### Environmental Benefits:

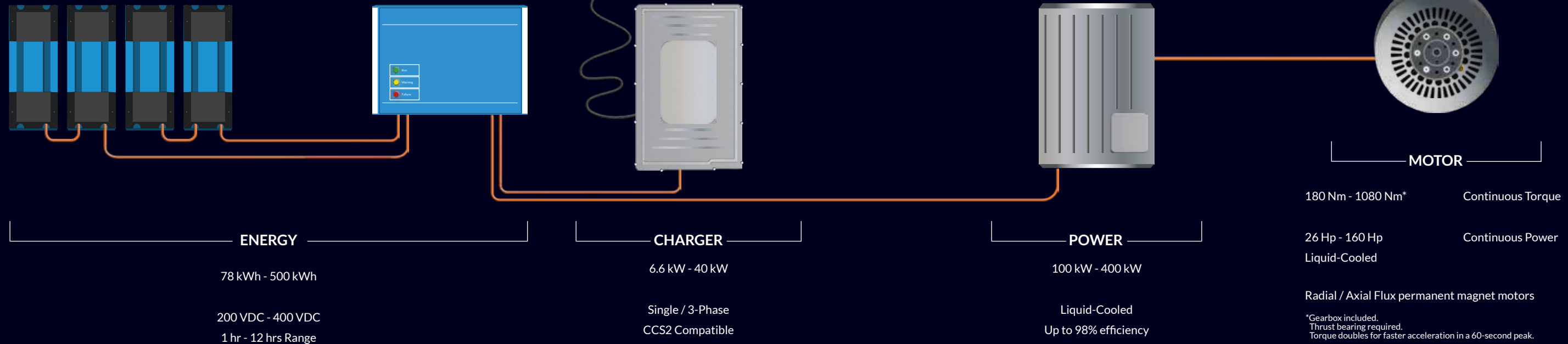
Our eco-friendly hybrid propulsion systems emit fewer pollutants, reducing the environmental impact of yachting. Sail guilt-free and explore iconic landscapes while preserving their beauty.

### Lower Operating Cost:

Experience cost-effective navigation with our low-maintenance hybrid propulsion systems. Reduced wear and tear means less fuel consumption and emissions, saving you money while embracing sustainable sailing.

### Quieter Operation:

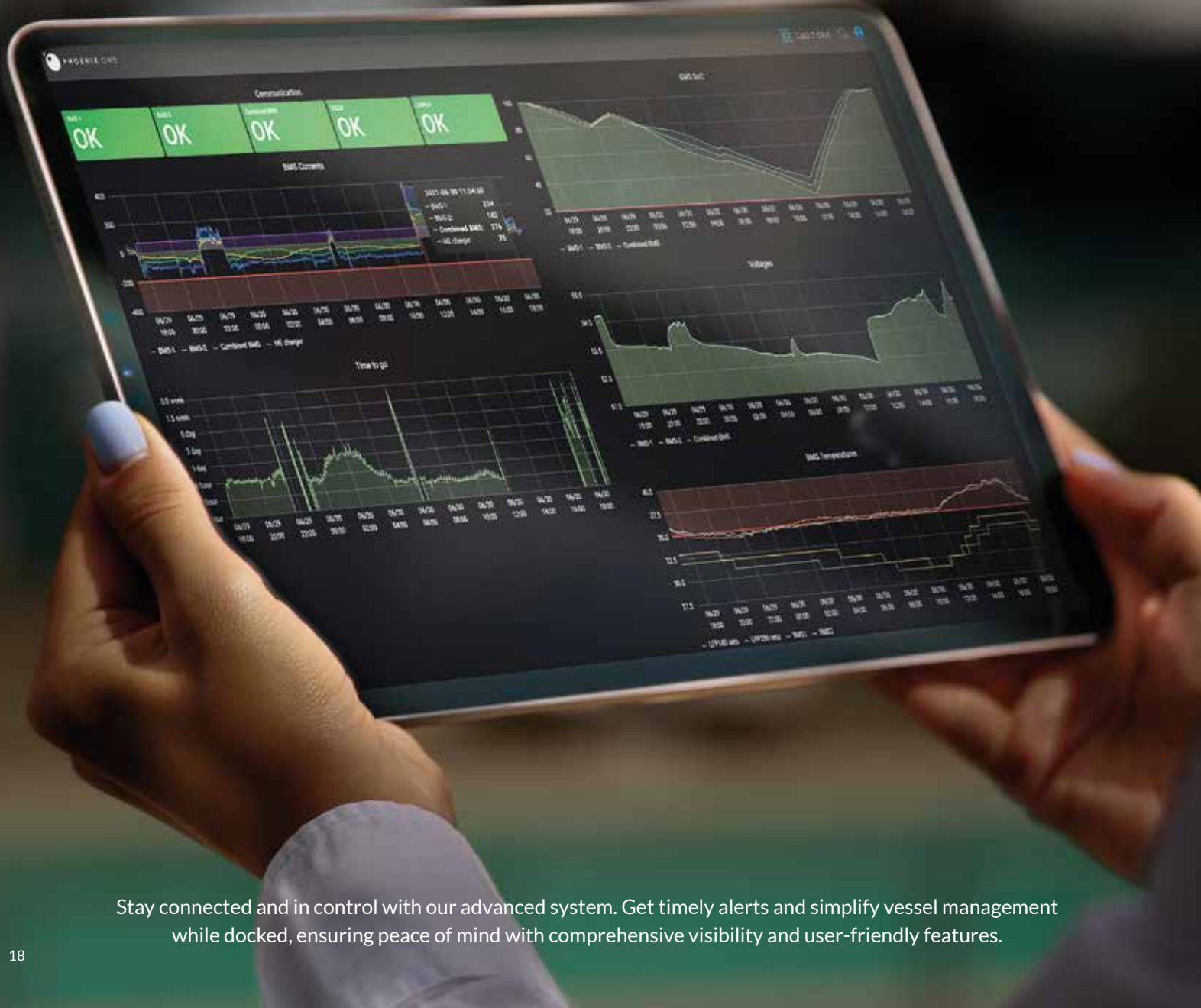
Enjoy serene journeys with our silent hybrid propulsion systems. Say goodbye to intrusive engine noise and embrace the tranquillity of silent propulsion for a more peaceful onboard experience.







# MONITORING



Stay connected and in control with our advanced system. Get timely alerts and simplify vessel management while docked, ensuring peace of mind with comprehensive visibility and user-friendly features.

## KEY FEATURES

### Total Control & Safety:

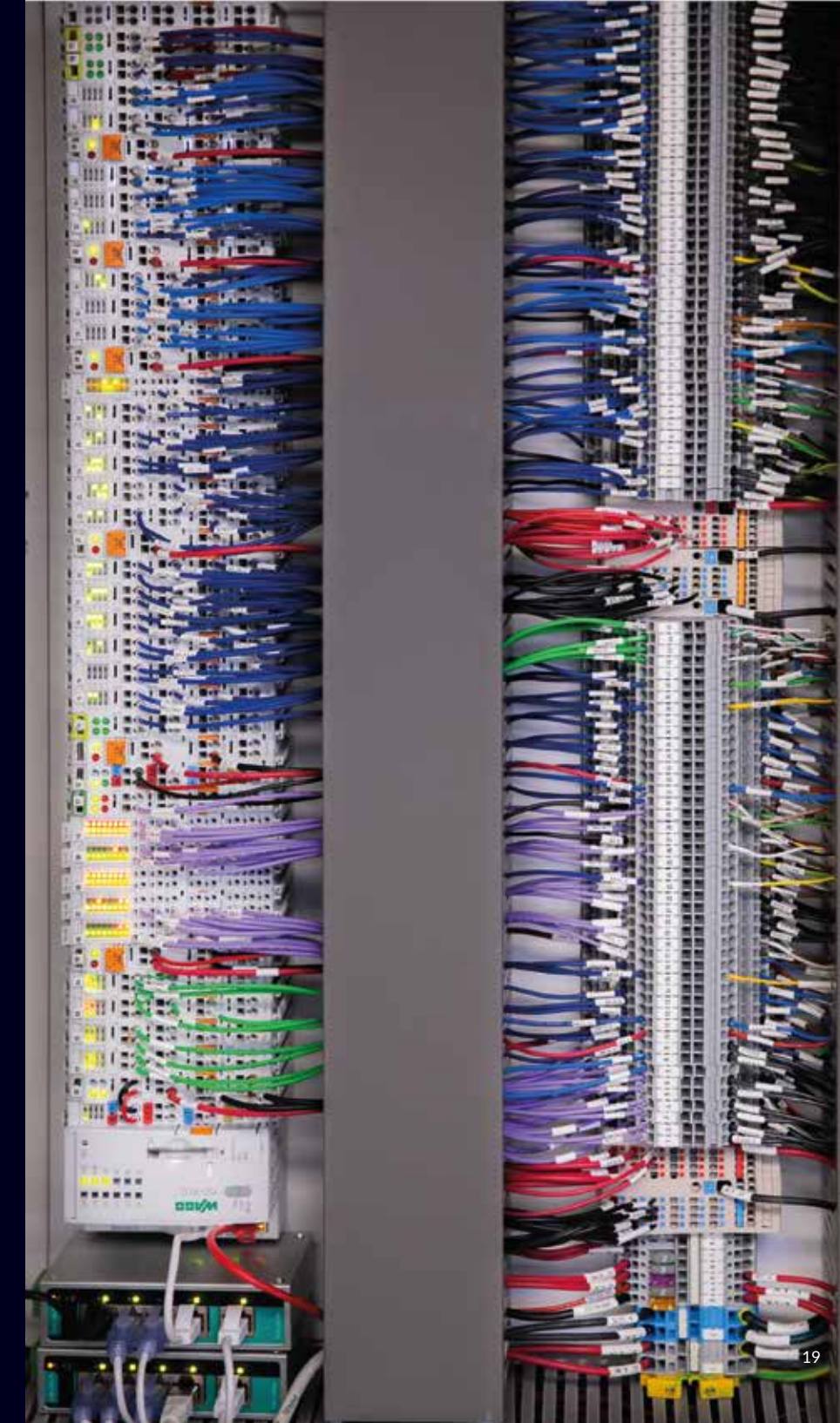
Gain unparalleled peace of mind with our touchscreen control system. Compatible with LES, electrical systems, generators, and more, it consolidates all functions into one interface for effortless management.

### Custom-Built Systems:

Our bespoke approach ensures every equipment is tailored to fit your vessel perfectly, meeting its unique specifications.

### On-the-Go Monitoring:

Stay informed with instant notifications for Wi-Fi connection drops, ensuring you're always aware of any temporary disruptions, whether on or off the yacht.



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NEST



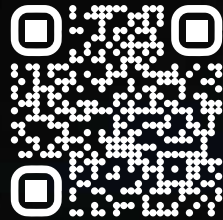
NEST



### YOUR VESSELS ONLINE MONITORING PLATFORM

A proprietary cloud platform to store all collected data. Neatly archived for ongoing reference.

LOGIN AND WATCH OUR DEMO:



nest.phoenixone.com

Username: demo  
Password: nestdemo



### KEY FEATURES

#### Accessibility:

Seamlessly access your data from anywhere, anytime, even without an internet connection. Stay connected to your yacht's information wherever your adventures take you.

#### Maintenance:

Effortlessly collect and preserve historical data for ongoing maintenance needs. Ensure your yacht is always in top condition with efficient data harvesting and storage.

#### All Information Stored:

Dive into a sea of information effortlessly with Phoenix One's cloud system, NEST. Access and share all monitored system data with ease, keeping everyone onboard informed and connected.





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# PROJECTS



# S/Y WINDROSE







### **Setting Sail for Innovation**

In the world of luxury sailing, few vessels command attention like S/Y Windrose of Amsterdam. Designed by Dykstra and crafted by Holland Jachtbouw, this majestic sailing yacht boasts an impressive resume, including holding the Atlantic crossing record for 2002 and 2005, achieving a breath-taking speed of 27 knots under sail. But Windrose is not just about breaking records; it's about redefining the possibilities of sailing.

### **Innovative Power Solutions**

At the heart of Windrose's innovative setup lies the Phoenix One battery power system, featuring Silent Power Technology. This cutting-edge technology, coupled with lithium energy storage and integrated power supervisor, guarantees seamless movement while maintaining a serene environment for guests and crew alike. By minimising noise and emissions, Windrose preserves the pristine beauty of the environments it visits, allowing passengers to focus on exploring and researching the world's marine resources.

### **Engineered for Success**

Detailed simulations of daily operations, including load changes and off-load scenarios, guided the design process, ensuring seamless system implementation. Windrose's modular high-voltage lithium battery system reduces fuel consumption by up to 25% and extends generator lifespan, significantly cutting maintenance costs.

### **The Future of Luxury Sailing**

Currently traversing the Pacific archipelagos, Windrose epitomises the future of luxury sailing with its hybrid power system. By combining cutting-edge technology with a commitment to sustainability and comfort, Windrose sets a new standard for exploration and adventure on the high seas.



# S/Y ACAAIA







### **Revolutionising Energy Storage**

Phoenix One spearheaded a bold move aboard *S/Y Acaia*, replacing the hefty 1500kg battery pack with a sleek 560kg Lithium Energy Storage (LES) unit. This transformation boosted energy capacity from 20kWh to an impressive 80kWh, while slashing weight by nearly threefold. The LES, comprising 14x LiFePO4 batteries, was meticulously tailored to fit *Acaia*'s physical space, showcasing Phoenix One's expertise in bespoke energy solutions.

### **Empowering Continuous Operations**

Post-refit, *S/Y Acaia* relied on LES for over 75% of its operational hours, with the longest stint without generator backup spanning 22 hours. Equipped with 12kW chargers and 24kW inverters, the vessel can swiftly recharge using onboard generators and shoreline power, ensuring uninterrupted voyages.

### **Centralised Monitoring for Enhanced Safety**

The addition of a custom-designed monitoring and control system offers unparalleled oversight. By gathering data from various onboard systems, including tank levels and generators, Phoenix One empowers the crews with clear insights, ensuring prompt response to any anomalies. With an intuitive touchscreen interface, the crew can access controls for LES, electrical systems, and more, fostering safer navigation.

### **Future-Proof Connectivity**

The collaboration between *S/Y Acaia* and Phoenix One exemplifies the marriage of cutting-edge technology and maritime tradition. By embracing innovative energy storage, advanced monitoring, and robust connectivity, Phoenix One has not only optimised *Acaia*'s performance but also set a new standard for sustainable and efficient sailing.



# S/Y GALAXIE







Meet S/Y Galaxie, a timeless aluminium ketch born in 1979 from the visionary mind of Jean Pugliese and renowned naval architect Dominique Presles. Today, Galaxie's story takes a transformative turn as it pioneers sustainability in the marine industry.

#### **Project Overview**

Commissioned by TrueWorld Organisation, a leader in sustainability and decarbonisation solutions, the mission was clear: to grant this vintage vessel a second life as a beacon of eco-conscious navigation. Enter Phoenix One, entrusted with the monumental task of revolutionising Galaxie's propulsion system.

#### **Innovative Solutions**

Phoenix One embarked on a groundbreaking retrofit, replacing Galaxie's outdated 800kg Volvo Penta diesel engine with a powerful Emrax 268 Axial Flux electric motor, weighing a mere 50kg. Two battery banks, each housing 16 LFP batteries, were integrated, ensuring zero emissions and silent cruising for hours on end.

#### **Result and Impact**

The outcome? Galaxie now navigates the seas with whisper-quiet propulsion, free from the noise and emissions of combustion engines. This sustainable makeover not only breathes new life into the vessel but also sets a precedent for eco-friendly practices in the maritime industry.

Thanks to the expertise of Phoenix One and the vision of TrueWorld Organisation, S/Y Galaxie embarks on a new chapter as a pioneer for sustainability in sailing. With her silent cruising capabilities and dedication to environmental preservation, Galaxie inspires a wave of change, proving that sustainability and adventure can go hand in hand at sea.

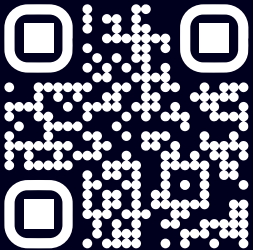






As our maritime journey progresses, Phoenix One stands as a guiding light of innovation and sustainability, revolutionising the yachting industry with each vessel we touch. Through our advanced battery power systems and hybrid propulsion solutions, we've not only redefined how yachts navigate the seas but also reaffirmed our dedication to preserving our oceans for generations to come.

Join us as we chart a course towards a brighter, greener future, where efficiency seamlessly intertwines with luxury, and every voyage embodies the perfect harmony between technology and nature.



# SILENT POWER TECHNOLOGY

[www.phoenixone.com](http://www.phoenixone.com) | [sales@phoenixone.com](mailto:sales@phoenixone.com) | +34 679 64 89 52  
Av. Joan Miro 3B Local F, 07014 Palma de Mallorca, Islas Baleares, Spain