



Maritime & Energy Solutions



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V-MES was conceived in 2024 by its founder, a seasoned naval architect and marine engineer, former officer of the Italian Navy.

We serve the Maritime and Energy industries, acting as a bridge between top-tier global engineering manufacturers and the end-customers located and operating in the Mediterranean and Africa.

At our company, we don't just provide solutions; we are our clients' trusted partner, supporting them in managing the complex and vital dynamics of the maritime and energy industries.

We understand the significant responsibility that weighs on our clients' businesses, whether they undertake the ambitious project of acquiring new heavy machinery, launch new construction projects, or require specialized maintenance, repair, and overhaul (MRO) or operation and maintenance (O&M).

Our primary goal is to effortlessly link the project requirements with design & engineering firms or top-tier manufacturers, guaranteeing that our customer consistently has access to the unmatched expertise, crucial for the project success.

Regardless of complexity or urgency, we consistently provide optimal solutions, enabling our customer initiatives not only to work, but to thrive.

We serve our target markets through three Business Lines:

- Marine
- Power Plant
- Oil & Gas

Our vast network includes customers in the following categories:

- Shipowners & Ship Management Firms
- IPPs, ESCos, and Utilities
- Investors in Energy Infrastructures (offshore operators, drilling companies, floating LNG vessel owners, FSRU owners & operators).

Last but not least, we are always open to new partnerships with companies operating remotely and looking for a reliable organization to connect them to our markets.



*Gennaro Vinetto,
founder and CEO*



Elevating Maritime Operations through Machinery & Equipment Supply

We support shipyards, shipowners, and shipmanagement companies in the procurement and purchase of marine heavy machinery and equipment, offering the best brands on the global market.



Ship Design, Shipbuilding, Project Management, and Financing Solutions

Our collaboration with renowned naval architects and EPC contractors allows us to deliver cutting-edge Ship Design services, Project Management and even Shipbuilding services for those clients who search for efficiency and sustainability in vessel construction.

Alliances with financial institutions allow us to provide flexible Financing options, tailored to meet the diverse needs and budgets of clients that are in the process to invest in the building of vessels of any type and of any scale.

Keeping Marine Heavy Machinery in Top Shape

We deliver MRO (maintenance, repair and overhaul) services, deploying on-board Riding Squads made up of expert service engineers, selecting genuine, OEM and alternative spare parts depending on the project and client's requirements.



Gas Power Generation Solutions

At V-MES, we pride ourselves in offering diverse and scalable solutions for gas power generation, spanning the entire power plant lifecycle. Our solutions are highly competitive in price, delivery times, reliability, and quality.

Customized Power Plant Configurations:

We help our customers to tailor power plant configurations to optimize overall energy output efficiency and meet specific needs, such as: maintainability and reliability.

Green Energy:

We develop sustainable power generation solutions using renewable fuel gases.

Remote Monitoring:

Our power plants are equipped with remote monitoring systems that improve operational efficiency while maximizing up-time.

Training and Certification Programs:

We provide training and certification programs for on-site staff to ensure safe and effective operation.



Large-Scale C&I BESS Solutions

Our commercial and industrial battery energy storage systems (C&I BESS) are large-scale, high-performance energy solutions designed to empower businesses with energy independence, cost-efficiency, and operational resilience.

At V-MES, we go beyond simply selling equipment. We offer a comprehensive partnership that includes the following services.

Feasibility & ROI Modeling:

We conduct a detailed analysis of customer's load profiles and local utility tariffs to ensure a viable business case.

Custom Engineering:

Our specialists tailor system sizing and integration design to meet the specific constraints of the facility.

Assisting with Deployment & Commissioning:

We provide professional installation and grid interconnection support.

O&M Support:

We provide ongoing monitoring, performance audits, and maintenance services to ensure maximum system health and ROI



Beyond the Sale

Our Aftersales Service solutions are varied and flexible, designed together with the customer and based on real requirements.

They span from the supply of spare parts, to on-call MRO services, to LTSA, up to plant Operation & Maintenance.

Integrating EPC-OM Framework

V-MES bridges the Oil & Gas market with leading companies that operate as an EPC-OM contractor (Engineering, Procurement, Construction, Operation & Maintenance).

The EPC-OM integrated framework combines project delivery (EPC) with long-term asset management (O&M), ensuring seamless transitions from construction to operational phases in oil & gas. Such framework minimizes risks, reduces costs, and accelerates timelines by aligning design, construction, and operational needs. This holistic approach ensures compliance, safety, and sustainability in high-stakes environments.

In other words, the EPC-OM contractor (our partner), serves as a single-point responsibility that delivers "turnkey" projects. This means they manage the entire lifecycle of a project—from the initial design and sourcing of high-spec equipment to on-site construction—handing over a fully functional facility to the owner.

Where do we operate?

Upstream: Offshore platforms, oil separation facilities, and gas processing plants.

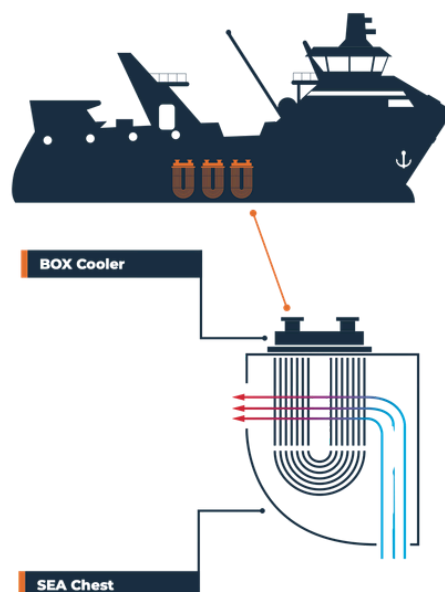
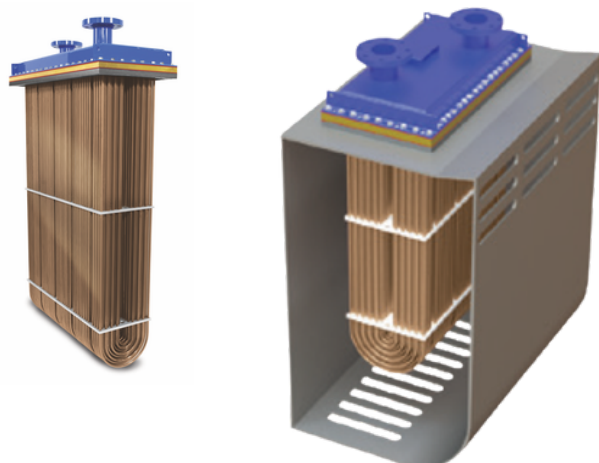
Midstream: Pipelines, compressor stations, and metering facilities.

Downstream: Refineries, LNG (Liquefied Natural Gas) plants, Green H2 plants, and petrochemical facilities.



BOX COOLERS

V-MES offers Weka Marine Box Coolers, recognized worldwide for their quality, efficiency, operational robustness, and reliability over an extended service life. Weka Box Cooler features a U-tube bundle, ingeniously fitted into the sea chest on the vessel's side, effectively saving space within the engine room.



Each Weka Box Cooler is designed based on the customer's specific requirements. Dimensions, efficiency, heat exchange capacity, materials, and installation method (bottom or top) are decided by Weka engineers together with the customer during the feasibility study.



The Copper/Nickel Weka Box Cooler (90/10 or 70/10) is our flagship product. It allows the customer to avoid installing additional anti-fouling systems, as the Copper/Nickel offers natural protection against fouling growth (and this occurs without releasing copper into the sea, thus preserving the environment). Copper's high heat transfer capacity is also recognized, making this product more efficient than competing products (which use coated metal materials).

Last but not least, the Copper/Nickel Weka Box Cooler is virtually maintenance-free for its entire lifespan, a major benefit for shipowners.



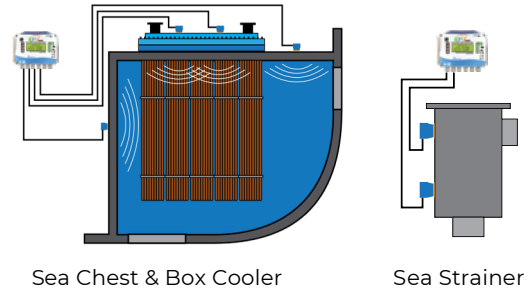
ULTRA-SONIC ANTIFOULING SYSTEMS



V-MES distributes ENV Sonic systems in cooperation with Weka Marine.

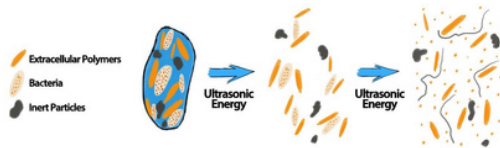
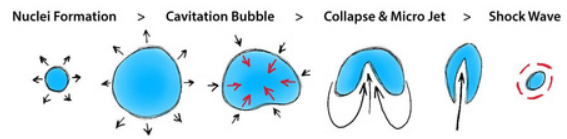
These USAF systems are designed and manufactured by GLOBA.tech and marketed under the brand ENV Sonic.

In general USAF systems represent a sustainable, chemical-free technology designed to prevent the accumulation of marine growth and mineral scale in both maritime and industrial environments.



HOW THEY WORK

By utilizing high-frequency sound waves (ultrasound) to create microscopic pressure fluctuations, these systems disrupt the formation of the initial "biofilm" that allows algae, barnacles, and mussels to attach to surfaces.



The ultrasonic cavitation causes disintegration of the cell wall of algae and bacteria reducing the same to inert particles and preventing continued colonization or growth. See Figure 2 below.

In the maritime sector, this technology is primarily used to keep ship hulls, propellers, sea water pipes, and sea chests clean, significantly reducing fuel consumption and maintenance costs.

In industrial applications, it is a critical tool for maintaining efficiency in cooling towers, heat exchangers, and intake pipework, where it prevents biological clogging and scale buildup without the need for toxic biocides or expensive manual cleaning.

SYSTEM OVERVIEW



SMART MODULE

This cutting-edge system combines the latest technology, engineering, and development, backed by our renowned track record as USAF pioneers. Engineered to meet industrial ultrasonic biofouling prevention needs, it adheres to industry standards for cabinet mounting, offers remote monitoring and control, scalability for any deployment size, and unparalleled power. Say goodbye to marine fouling with ENV Sonic ENV5-300.



CONTROL MODULE

The ENV Sonic control module is the brains of the solution and generates the ultrasonic output to drive and monitor both itself and the transducers. Through constant measuring of a plethora of temperature, voltage, input and current sensors the control module runs an advanced proprietary algorithm to generate the output to the individually and automatically calibrated and monitored transducers.



TRANSDUCERS. MOUNTING SOLUTION

ENV Sonic Transducers are sophisticated, durable devices with exclusive assembly and material technologies. The proprietary mounting footprint ensures easy installation, a water-tight seal, electrical isolation, and improved ultrasonic transference. Monolithic integration with the structure enhances performance and reliability.

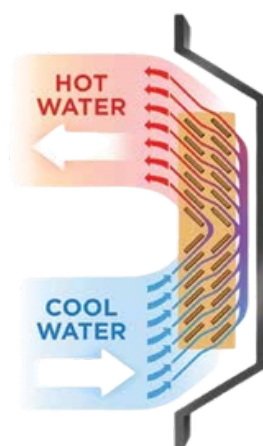
KEEL COOLERS

GRIDCOOLERS Keel Coolers are designed and manufactured by R.W. Fernstrum & Co., the pioneer of the rectangular tube keel cooler.

Fernstrum set the standard in marine heat exchangers over 70 years ago, building a reputation focused on innovation.

Each of our keel cooling solution is engineered to meet the Shipowner's requirements.

Our commitment to quality means the customer gets a reliable, long-lasting cooling system.



90/10 Copper-Nickel: Fernstrum Copper-Nickel Keel Cooler is crafted using heavy walled rectangular 90/10 copper-nickel tubing. This alloy was selected based on its durability, heat exchange abilities, resistance to salt water corrosion, and natural antifouling capabilities.



Silver Braze Wire: Each copper-nickel keel cooler is torch brazed with 56% silver (content) braze wire to maximize the flexibility and durability of the unit. The higher silver content offers superior corrosion resistance, improving the dependability of the keel cooler and its ability to withstand harsher operating conditions.

Enhanced & Smooth Interior Walled Tubing: Compared to a smooth walled tube, the enhanced tube increases the heat transfer capability by up to 30 percent. This is especially true in applications where glycol solutions are utilized. The improvement in efficiency may reduce the number or size of the units required for an application.



Aluminum Keel Cooler: The aluminum Keel Cooler is designed specifically for unpainted aluminum hull applications in fresh or cold seawater environments. The alloy compatibility between the hull and keel cooler prevents pitting and avoids potential damage from interacting metals. Aluminum units are tig welded for durability.



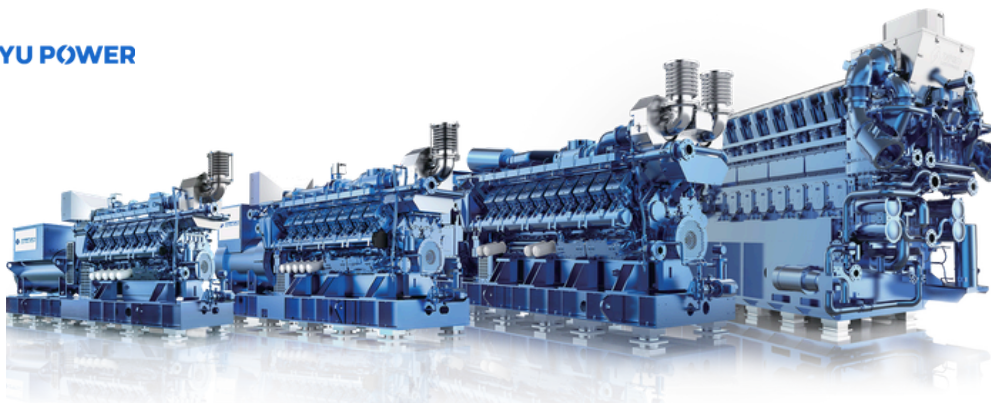
GAS ENGINES

V-MES offers stationary gas generating sets in the power range 1 to 4 MW, designed, manufactured, and delivered by LIYU POWER.

Compliant with Italy & EU certification framework.

Applications: Proven performance for CHP/CCHP Plants, District Heating, Data Centers, Grid Support, and Greenhouse operations.

High fuel gas flexibility: natural gas, biogas, hydrogen blended gas, coal-bed gas, industrial waste gas, associated petroleum gas

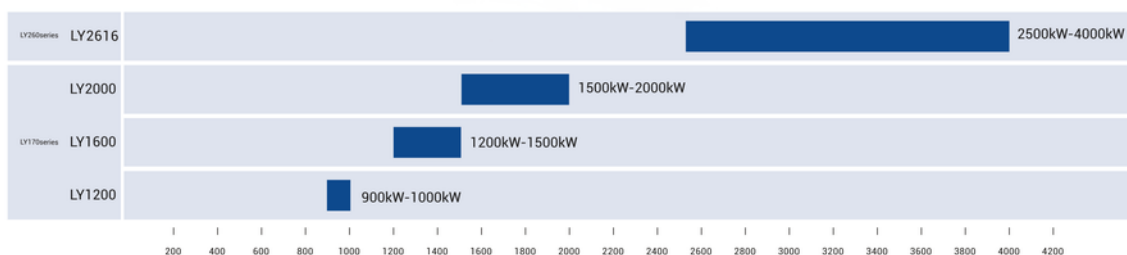


LY1200

LY1600

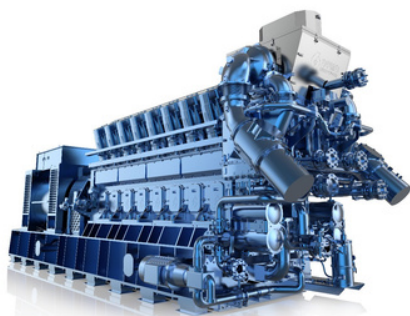
LY2000

LY2616



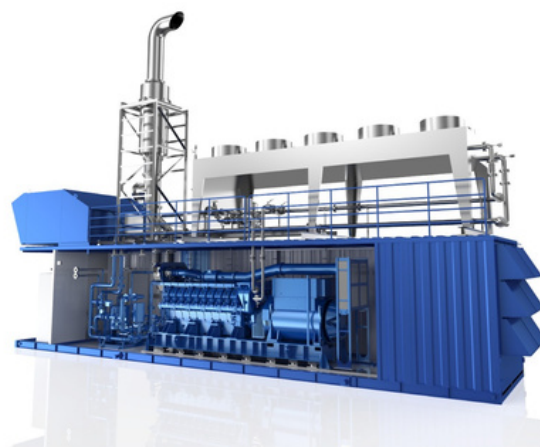
Open Configuration

Ideal for custom projects and indoor plant rooms. Designed for maximum accessibility and long-term durability.



Containerized Solutions

High-grade acoustic enclosures that provide superior sound insulation and protection against harsh environments. Perfect for remote sites or quick-start installations.



C&I BESS

Our large-scale C&I BESS solutions have modular architecture, high-density, output ranging from 500 kWh to multi-MWh, and are designed to help businesses manage heavy energy loads, reduce operational costs, and ensure power stability.

Hardware & Infrastructure

Containerized Solutions: housed in 20ft or 40ft containers for easy deployment. These include the batteries, Inverters (PCS), Fire Suppression Systems, and Climate Control.

Liquid Cooling: this maintains uniform cell temperatures, extending battery life by up to 20% and improving safety during rapid discharge.

LiFePO₄ (LFP) Chemistry: this guarantees high thermal stability and long cycle life (often 6,000+ cycles).

Key Operational Use Cases of our solutions

Large-scale storage transforms energy from a fixed cost into a flexible asset.

Peak Shaving:

Automatically discharging during periods of maximum demand to stay below utility power caps, significantly reducing "demand charges" on electricity bills.

Load Shifting (Arbitrage):

Charging the batteries when electricity prices are low (off-peak) and discharging them when prices are high (on-peak).

Microgrid & Back-up:

Providing "seamless" transition to island mode during grid outages, ensuring critical industrial processes don't stop.

Renewable Smoothing:

Buffering the output of large on-site solar or wind farms to prevent sudden voltage drops and maximize self-consumption

Digital & Economic Solutions

The "intelligence" of our large-scale BESS solutions is what drives the customer's ROI.

AI-Driven EMS (Energy Management System):

Software that uses weather forecasts and historical load data to predict when to charge or discharge for maximum savings.

Revenue Stacking (VPP):

Large plants can participate in Virtual Power Plants, selling frequency regulation and grid balancing services back to the utility.

Flexible Financing:

We have several offerings. One of most requested is "storage-as-a-service" (SaaS), where the system is installed with zero upfront CapEx, and we share the savings generated with our customer.

Key Global Partners

Our offerings come to life thanks to the partnerships that V-MES has established with leading battery manufacturers and system integrators operating worldwide for years now



ENGINEERING SERVICES

LNG seagoing vessels and terminal facilities

- EPC services, covering the entire project lifecycle
- FEED-stage (front-end engineering design) and tender proposal setting-up consulting
- PMA (project management agency) with end-to-end capability
- PC&C (pre-commissioning & commissioning) and Preservation
- Punch Close-out

Shipbuilding

- Ship Design (detail design, production design, FEM analysis)
- New Building EPC / co-EPC
- Conversion / retrofit project
- Construction financing (up to 70%)

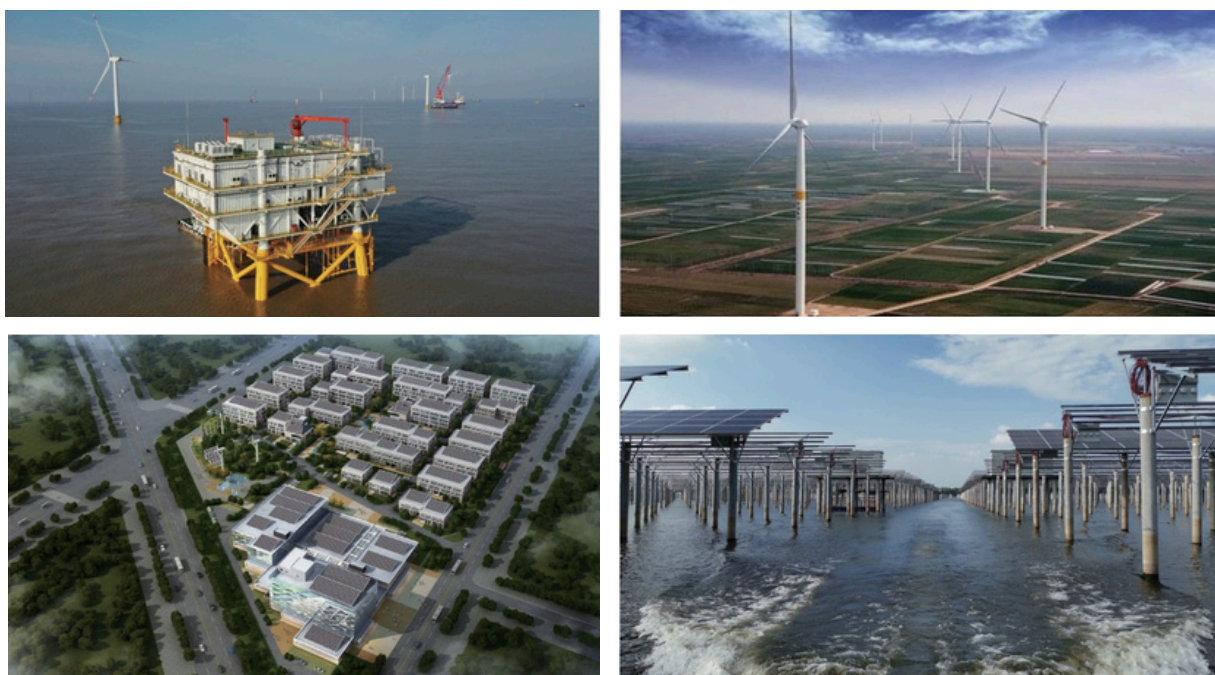
These services are available for every type of merchant vessel (e.g. tanker, bulk carrier, container ship, FSRU, offshore service, ferry, RoPax, tugboat, barge, ...)



Large Power Plant

- - EPC / co-EPC / consortium EPC
- - EPC with financing support (up to 80%, subject to project approval)
- - O&M (operation & maintenance)

These services are available for a variety of applications (e.g. diesel or gas-fired power plant, coal-fired power plant, floating power plant, C&I BESS, solar PV, ...)



MAINTENANCE, REPAIR, AND OVERHAUL

Marine

We provide Riding Squads to be deployed on board seagoing vessels, whether these are at drydock, at berth, at anchor or even while sailing.

Our specialties include Inspection, Scheduled Maintenance, Repair and Overhaul of:

- Main Engine, 2-stroke and 4-stroke
- Auxiliary Engine Generator
- Turbocharger
- Cooling System (box cooler, keel cooler, plate cooler)
- Propulsion System (shaft line, sealing, all types of propeller)
- Ancillaries (mechanical, hydraulic, electrical)

Power Plant

Our extensive knowledge and experience in the power plant service industry spans nearly three decades.

Specializing in all types of engines, gas turbines, boilers, and exhaust gas treatment systems, we provide a wide range of technical services to ensure seamless operation.

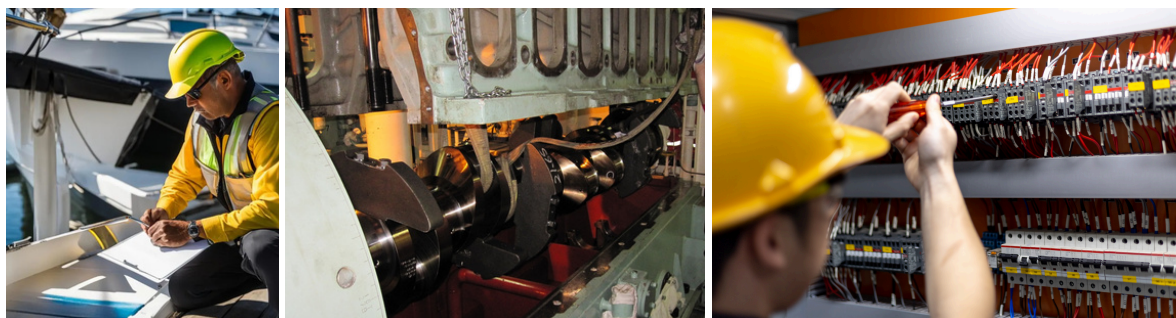
Our typical offerings cover the following:

- SPSA, spare parts supply agreements with guaranteed lead times.
- On-call MRO maintenance, repair, and overhaul services, performed by qualified personnel and using genuine spare parts and reconditioned components on an exchange basis.
- SMA, scheduled maintenance agreements at fixed rates.
- LTSA, long-term service agreements with guaranteed availability.
- O&M, full operation and maintenance carried out by our qualified personnel

Oil & Gas

We provide maintenance, repair, and overhaul services, performed by qualified personnel on a wide range of machinery and equipment, both on-call and on the basis of long-term agreements, tailored to the owner requirements.

We also supply genuine Spare Parts and reconditioned components.





Founded in 1994 and headquartered in Changsha, Hunan Province, China, **LIYU GROUP** specializes in power equipment research and development, manufacturing, and sales of Gas Engines (from 1 to 4 MW) and Gas Power Plants.

The company focuses on harnessing combustible greenhouse gases to support three key energy systems: gas engines and complete gas power plants (LIYU POWER division), energy management of energy-intensive sites, O&M and MRO (LIYU ENERGY division), and energy efficiency (LIYU GREENENERGY division).

LIYU POWER division's Gen-Set production capacity is 1,000 units per year.

The total workforce exceeds 1,200 employees. HQs, offices and production facilities of LIYU Group span over an area of 350,000 square meters.

In addition to the production site in Changsha (the Headquarters), LIYU GROUP operates branches in other cities in China, a branch office in the UAE (Dubai), and a branch office in Europe (Italy).

LIYU POWER's advanced manufacturing facility employs the highest manufacturing and quality standards (latest-generation CNC machines, top-notch in-house techniques and procedures, specialized personnel, and materials from top-tier suppliers).



LINGTECH is a brand of **Shenzhen Lingtech Technology Co., Ltd.**, headquartered in Shenzhen, in Southeast China, a modern metropolis that connects Hong Kong to the rest of China.

It is a leading manufacturer of PV systems and battery storage system & solution provider in China, with a commercial presence on four continents.

Since 2009, LINGTECH has made significant investments in R&D and production of high-tech batteries, as well as exclusive lithium sourcing sites (total approximately USD 100 million).

Today, it has more than 500 employees and around 500 patents.

The product range (at battery division alone) includes telecommunications batteries, transportation batteries, residential home battery systems (ESS), commercial ESS, industrial BESS, and utility grid BESS.

As of the end of 2023, the production capacity of LINGTECH's battery division reached and exceeded 10 GWh. All battery products boast the following certificates: CE, IEC, UN38.3, MSDS, ROHS, UL, ETL, and PSE.

The company also holds the following certifications: ISO9001, ISO14001, ISO45001, and IATF16949, as well as other international certifications.





WEKA MARINE B.V., established in 1957 in Rotterdam (NL) is part of FERNSTRUM Group.

Weka Marine and Fernstrum have been providing global markets with excellent marine cooling solutions for over 70 years.

Weka's product portfolio encompasses Box Coolers in copper-nickel 90/10 or 70/30 tubes (coated aluminum brass or steel tubes are also available), Keel Coolers, Plate Heat Exchangers, and USAF systems (ultra-sonic anti-fouling).

Thanks to the experience accumulated over decades on the marine market, Weka Marine plays a leading role globally in the design, manufacturing, sales, after-sales and development of innovative cooling solutions.

Shipbuilders and ship owners can benefit from high precision and quality, innovative and tailor-made products (no mass-produced), added to the global network for after-sales service.

Weka Marine's products guarantees the end user high product reliability, reduced maintenance need and lower total cost of ownership.



R.W. FERNSTRUM & Co. has been engineering and manufacturing custom heat exchangers for the marine industry since 1949.

R.W. Fernstrum & Company is a registered company in Menominee, Michigan, USA.

Each cooling solution is engineered to meet the client's requirements for engine, vessel, and operating conditions.

Fernstrum's commitment to quality means that the client gets a reliable, long-lasting cooling system from Fernstrum, the pioneer of the rectangular tube keel cooler.

GRIDCOOLER is a registered mark of Fernstrum keel cooler, that has continually evolved to meet the performance expectations of naval architects and the marine industry worldwide.

Fernstrum's craftsmen employ the latest technologies to maximize the manufacturing process. The result is a custom-designed GRIDCOOLER Keel Cooler solution that performs as expected, meeting the client's exact needs.

Fernstrum set the standard in marine heat exchangers almost 80 years ago, building a reputation focused on innovation.

A widespread global network of dealers and agents allows Fernstrum to support Clients with all their needs throughout the entire lifecycle of their GRIDCOOLER.





Flourishing Business Consulting Pte. Ltd, based in Singapore, is an independent energy and maritime project integrator supporting complex infrastructure projects across emerging markets.

FSC bridges qualified EPC contractors, shipyards, financiers, and project owners to structure, coordinate, and deliver bankable energy and floating asset solutions.

By focusing on energy security, execution certainty, and long-term operability, FSC helps project owners transform technically viable ideas into financeable, deliverable assets that strengthen reliable power supply while supporting practical energy transition pathways.



EPC Technology A to Z Co., Ltd is a Korea-based Project Management Agency specializing in offshore, LNG, and marine infrastructure projects. It is led by an executive with over 30 years of leadership experience in global shipbuilding and offshore industries, including participation in a single-project achievement of 42 million LTI-free safe man-hours on the TCO module project.

EPCTAZ delivers disciplined technical evaluation and execution-oriented project management for complex industrial developments.

In collaboration with V-MES, EPCTAZ supports the identification of qualified Korean manufacturers and contributes technical and execution expertise to facilitate commercially sound cooperation between European clients and Korean industry.



DALLASERRA RIDDERKERK SPARES B.V. is a company based in Ridderkerk, the Netherlands, where it was established in 1988.

DRS boasts long experience in the international trade of Spare Parts and Equipment in the maritime, power generation, oil & gas and petrochemical markets.

DRS can count on the trust of globally renowned manufacturers delivering top-tier equipment.

Among the brands offered by DRS we mention here only the main ones:

- PLEIGER
- ELECTROLUX
- GEA
- AQUAMETRO
- SWEP
- SPIRAX SARCO
- RWO
- B+V
- WOODWARD



At DRS, every action is dictated by the customer's needs. Reactivity and punctuality in the execution of orders, together with yes-can-do attitude, are just some of the strengths of people working at DRS.



MF SERVICE S.r.l., based in Ravenna, Italy, boasts specialists with a profound understanding of power plant applications based on diesel and gas engines.

They provide efficient, comprehensive MRO solutions (maintenance, repair, and overhaul), extending support to the entire Balance of Plant (BoP).

MF Service delivers reliable, efficient, and cost-effective solutions that empower clients across power generation and marine industries. Understanding that downtime is not an option, MF Service operates with an agile, technically skilled organization, structured to respond with precision and speed.

In addition to a spare parts warehouse that includes genuine and OEM parts, as well as internally reconditioned components, MF SERVICE has a vast international network that allows to offer spare parts procurement and sourcing services, making the company responsive and reliable in both emergencies and scheduled overhauls.





V-MES S.r.l.

Registered office: Via Toledo, 306 I-80134 Napoli, Italia
VAT no. 10698821211 - REA no. NA-1125539

 HQs Via Terragneta, 72 Torre Annunziata, Napoli, Italia
 +39 3514828118
 info@v-mes.it
 www.v-mes.it
 www.linkedin.com/company/v-mes

