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After a busy year in 2021, demand for both new and pre-owned superyachts remained high in 2022, and it continues to rise in 2023 for larger superyachts, with several shipyards now building yachts that are more than 100 m in length. Indeed, the global yacht industry is expected to register a record-breaking year in 2023. Meanwhile, the market for superyachts longer than 50 m is forecast to show strong expansion over the next decade.

The global fleet over 30 m in length consisted of 5,555 superyachts in operation at the start of 2023. 85% of the global fleet consists of motor yachts, and 15% of sailing yachts.

The builders. Over the last 10 years, 290 shipyards have delivered one or more superyachts or are currently building a superyacht. A total of 26 shipyards are currently in the process of building their first superyacht. Currently, there are only 20 yards building yachts over 80 m and just 11 shipyards building yachts with a volume of more than 3,000 GT.

Refit market. There are on average over 1,450 refit yard visits per year by yachts over 30 m. US yards are the most popular refit destinations, having attracted 24% of all recorded yard visits in 2022. Italian yards handled yachts with the refit yard visits, but spread over 34 different facilities, making it the country with the most refit facilities. Spain and Italy handled the highest number of large yachts over 60 m, while the United States led in both the 30-40 m and 40-60 m category.

The Owners. Clients from the United States own the greatest share of superyachts over 40 m, at 26% of the total fleet. Russian owners come in second, with 13% of the fleet, followed by Greece and Turkey with 6% each. The United Kingdom and Italy close out the list of top owning countries with 5% each.

Demand remains strong. New and used yacht sales, though lower than in 2021, were still strong in 2022. However, moving into 2023, we see a slowdown in sales, a trend which is echoed by most industry players.

New-build sales of very large yachts dropping off. New-build sales over 80 m during 2022 have decreased in line with the overall newbuild sales market. If we exclude resale, seven new yachts over 80 m were sold in 2022, against 13 in 2021, a decline of almost 50%.

The Middle East is “the place to be” in 2023. UAE, Qatar and Oman are attracting more and more yachts. Saudi Arabia is also making large investments in the superyacht and general tourism infrastructure on its Red Sea coast. Several superyacht marinas are in-build, like the immense NEOM project. Part of the NEOM project also provides for the development of Sindalah island into a luxury island and yacht club destination. The development of Sindalah was announced in December 2022 and it promises to be a prime destination for luxury yachts within NEOM. Owing to high oil and gas prices in recent years, development is booming again in Saudi Arabia, but also in Dubai, where a dedicated superyacht refit yard will be built by a consortium of P&O Marinas, Al Seer Marine and MB92.

Turkey on the rise. Many yachts known to be Russian owned have moved to Turkey and are now transmitting their tracking signals (AIS) from there on ship tracking websites, often under a new flag. Registries like Malaysia, Palau or St Vincent & The Grenadines seem to be popular choices for these yachts. The big question is how and whether the Turkish superyacht maintenance and refit infrastructure will develop in order to deal with this extra presence in Turkish marinas. Rampant inflation in Turkey may cause costs for new developments to spiral, making it more complicated and risky to invest in expansion.

New trends emerging

The world of superyachts and luxury-property rentals is adapting to meet travellers’ changing needs and desires, providing them with experiences that are not only unparalleled in luxury but are also in harmony with the planet. The future of luxury travel has never been brighter.

- The Family Consideration Trend: A new inclusive trend is developing with the consideration of partners and children in all yacht decision-making processes. This change in decision making is already having an impact on 2023 designs and refurbishments with children and partner requirements now being considered.
- The “Explorer” Trend: There is an increasing desire to discover and explore very remote parts of the world in 2023. This desire for exploration has seen exploration yachts, also called expedition yachts, become the second most popular type of vessel currently under construction, charter, and refit.
- The Sustainability and Sailing Yacht Trend: Sustainability within the yachting industry is expected to become a key issue in 2023, especially with a younger generation of yacht users. Younger clients are concerned about their global footprint and conservation. Additionally, this year, yacht builders are going to be increasingly focused on launching eco-conscious vessels, many of which will also incorporate greener materials.

- The Yacht Safety Trend: 2023 will also be the year yacht companies promote safety onboard. This promotion will see an increase in yacht safety devices using AI and technology. The installation of fire, smoke, heat, gas, and flame detectors connected to AI are an emerging trend. These devices can automatically call emergency services if required.
- The Metaverse and Virtual Reality Trend: Virtual reality and the Metaverse are expected to have an impact on the yacht industry in 2023. With the launch of the Metaverse and cheaper VR headsets, the concept of viewing a yacht in a 3D, 360-degree environment has become much more appealing and accessible. This will ultimately lead to more charter bookings and yacht sales, with clients being able to virtually step on board the yacht of their choice with minimum effort.
With more than 1,100 yachts under class, RINA remains the leading classification society in yachting. Already in the early 2000s it launched a dedicated service line - the first to follow sustainability guidelines – as well as a unit devoted to yachting. RINA was the first classification body to not only train personnel dedicated solely to this sector but also to develop class rules for megayachts for private and commercial use back in 2005.

Since October 2022, RINA has decided to take a further step forward in this segment - particularly in the largest sizes of superyachts - which has grown exponentially in recent times. In fact, according to market intelligence data, in 2022 alone some 174 new yachts between 40 and 180 metres were sold (compared to 128 the previous year, and 72 in 2020), adding to a fleet of pleasure vessels that has now risen to a total of 5,902 units. A further 1,500 will be added by 2030.

With this in mind, the company has launched RINA MAXIMA: a new brand dedicated to custom built steel/ aluminium yachts. The brand has been created to provide all players in the sector with a structure comprising the people, skills and services needed to meet the challenges of the future, particularly in terms of decarbonisation and digitalisation.

MAXIMA has a team ready to offer a portfolio of tools and services to ensure clients are always at the forefront of the market; the team’s work, specifically, focuses on innovative design approval techniques, sustainability and decarbonisation, digital solutions, core services such as noise and vibration activities, while strengthening collaboration with the major flag administrations.

The objective of RNA - which is also a reference point in the world of cruise ships, a segment which is often close to superyachts - is to transfer experience and know-how from other sectors, accompanying its partners and guiding them in the implementation of new technologies and innovative solutions.

One year after launch, we can say RINA and Maxima are fully in line with the sustainability goals the shipping industry has set for itself: decarbonisation is an objective which requires a multidisciplinary approach taking into account technologies, materials, fuels, infrastructure and digital tools.

In this respect, RINA is supporting the superyacht sector not only by providing guidelines – as well as regulations and guidelines for the use of alternative fuels such as hydrogen and methanol, but also providing engineering support through risk analysis and feasibility studies while also acting as a solutions integrator. Today, these two fuels, together with bio-fuels, are the most promising candidates for achieving zero emissions, especially when coupled with fuel cells.

RINA MAXIMA also includes the new “sustainable yacht” notation, the first to assess both environmental and social elements. This notation is goal-based and includes in its scoring system the GREEN-PLUS, COMP. LARGE YACHT, DOLPHIN YACHT and MLC DESIGN notations. Most notably, there is also a carbon intensity index to measure carbon dioxide emissions while at sea and in port in line with the IMO CII index for merchant vessels. All these elements form a sustainable framework covering all aspects, from pollution to wellbeing and comfort on board, right down to the noise emitted underwater by the vessel to protect marine fauna.

During this year several projects have been enhanced by RINA MAXIMA, not only as part of the decarbonization challenge, but also through its digital solutions, most of which are embedded in our yacht management software SERTICA YACHT.

Designed to improve reliability and safety, Sertica Yacht offers a real-time system to plan and manage onboard work efficiently, supporting operators, shipyards and management companies in their efforts towards achieving sustainability, while still emphasizing the use of data to improve vessel design and operational efficiency. Our digital package includes planned maintenance, fleet management, a digital twin and performance monitoring capabilities tailored to the yachting sector.

RINA MAXIMA aims to become an instrument for the industry to develop solutions to the complex challenges of the future. For this very reason, it is continuously evolving, featuring new tools and services to remain at the cutting edge of innovation. Stay tuned for the next developments!

With the new brand and services, RINA continues to focus on superyachts with MAXIMA: its new brand dedicated to large yachts.
INTERVIEWS

Painting in Blue and Green

Interview with Michelangelo Casadei
Chief Technical and Operation Officer of Nautor Swan and General Manager of Oy Nautor Ab

Photo courtesy of Nautor Swan

Covid-19 provided another boost to the yachting market following the growth seen in 2019-2020. It has attracted a large number of new clients to boating, and we note an evolution in the buying patterns of customers.

At Nautor Swan, which is best known for its world-class sailing yachts, we are seeing a trend that is also apparent in other industries: a slight slowdown in demand for low- to mid-range products but notable growth at the other end of the scale, that is, in the maxi range above 88 million.

Nautor Swan’s sailboats also dovetail with the most vital issue at the moment: sustainability and the environment. What could be more low impact than a sailboat? We have been focusing on sustainability for a while now through our “Green and Blue” approach to products and their usage. This means adding green technical features to our blue water performance cruisers.

Today, we are providing technical “packages” to help owners save even more energy: this includes better hull efficiency, improved ventilation, efficient air conditioning and thermal and noise insulation. We are also helping owners to recover CO2-free energy through solar, wind and hydrogen generation, which is applied to hybrid electric/the yachts, both for “hotel” use (when the boat is at anchor with the generators switched off), and propulsion.

At the other end of the equation, we are focusing on creating ‘wise’ mission profiles that avoid overloading yachts with large battery banks, which despite their evolution in recent years, are still rather inefficient, heavy, expensive and not really eco-friendly over their lifetime. We strive to provide a ‘rational’ rather than emotional or ‘fashion oriented’ approach to hybrid propulsion.

We place great importance on R&D into new energy sources, such as hydrogen and ethanol fuel cells, and other sources that are able to take us beyond batteries, which can then be reserved as a useful and minimized energy buffer. We carry out R&D in cooperation with renowned Universities, including Politecnico di Milano and Universita di Bologna, who we supported for the second year running at the recent Monaco Yacht Club Energy Challenge.

Our new Maxi Swan 88 series is an example of this overall philosophy, and the first unit will be launched in 2024. This sailboat will feature full electric propulsion assisted by batteries and high-density generating sets, including hydrogenation capability. We are making the series scalable, with a full OEM approach that will also be applicable to the smaller Swan Line yachts, right down to the 48 feet models.

Another area where we are improving sustainability is in our production chain, and our goal is to enhance our processes through lean methodology. This starts at our shipyard, the Boatbuilding Technology Center in Pietarsaari, Finland, where we re-use heating and energy from other industries, improve transport and material flow, optimize working hours per manufacturing line to optimize our environmental footprint, and above all focus on people engagement.

We are also working on new materials to improve the performance and comfort on board. Air and water appendages, such as foils and sail wings, are becoming increasingly common in the niche area of performance yachts. It is likely that these will eventually spread to ‘normal’ yachts only if their ease of use improves and owners are able to sail in comfort without a compromise in layout and general arrangements.

There is also a lot of technology in terms of materials, live monitoring and control functions (sailing and load auto-optimization and aids, for example) that could, and will, be progressively transferred to performance cruisers. Remote connectivity can also play an important role, with proper infrastructure behind.

Throughout all of these developments, RINA is at our side. We have been increasingly working with RINA in recent times, and see the real added-value when our shipyard’s Technical and Certification Team receives complementary help, understanding and motivation from RINA’s surveyors and technical functions: that is, moving from “checking a project” to “jointly optimizing a project.”

Being able to exploit regulations to build yachts that are safe, seaworthy, and compliant, but also better in innovative functionalities, design and aesthetic features is a priceless tool. Here again our new Maxi Swan 88 series is a prime example, where we have been able to offer extra length and living volume to owners and crew, while keeping the load line length of the unit below 24 meters.

Michelangelo Casadei graduated as a Mechanical Engineer from Bologna University in 1999 cum laude. He began his professional career in 2000 at the Fiat Group, working in product development of diesel engines in several divisions and countries. In 2008, he joined the Ferretti Group, initially working on product industrialization and modularization, before taking the lead of the group’s Quality, Testing & Deliveries in 2011. In 2015, he became Engineering Director during the group’s successful relaunch plan where he, with his engineering team, developed and launched to-market 30 new models under its different brands (Ferretti Yachts, Custom Line, Riva, Pershing and Wally).

In 2021, Michelangelo became the Chief Technical and Operating Officer of Nautor Swan, working directly with the CEO Giovanni Pomati on the company’s transformation and growth. He has focused on the Boat Technology Center Yard in Pietarsaari (Finland), the expansion of the Club Swan racing boats range, and the new Power Boats division start-up and growth.

Michelangelo is a keen sailor and has taken part in many international events, including the transatlantic Quebec-Saint Malo, the Rolex Middle Sea Race, the Copa del Rey, and many others.
INTerviewS

Crafting the yachts of the future

Interview with Marcello Maggi
Chairman of W-Fin Sarl, the sole shareholder of Wider

Photo courtesy of Wider

Today, we can really see that an attention to the environment has arrived in the yachting industry: clients are more and more sensitive to this issue, as shown by Wider’s experience with our new-state-of-the-art catamaran, the WiderCat 92. We have sold 3 of these new yachts without yet having a hull in the water, demonstrating the market’s interest in this niche product. Here, the challenge was to combine sustainable technology with an attractive, futuristic design.

Backed by commercial know-how of our team, we carried out extensive market research which shows this segment offers great promise for the future. Catamarans offer two strong advantages: an implicit increased living area, and greater attention to sustainability factors including reduced fuel consumption and less noise and vibration. We believe this yacht type will enjoy widespread success going forward.

Environmental concerns are at the centre of a second important project at the yard, the Moonflower 72. This yacht will feature our pioneering serial hybrid propulsion system, a trademark of the yard, and will allow for a substantial reduction in environmental impact. The serial hybrid propulsion system comprises two variable-speed generators of 1,860kW each, and a sodium nickel battery bank of approximately 1MW. Considerable attention has been paid to the recovery of energy dispersed in the form of heat from the electrical propulsion system.

Meanwhile, the operation of onboard amenities has been optimised to increase efficiency and reduce consumption. By using AI to automatically learn and adapt to the habits of owner, guests and crew, the yacht also comes equipped with multiple solar panels that will allow on-board energy generation.

Moonflower 72 is our masterpiece together with Nauta Design, which developed and created the exterior and interior lines of the yacht, we are working hard to complete each step of the project in order to wow the market in 2025. Don’t miss it!

Wider’s core business is without doubt innovating in the “green” space in order to enhance and maximise sustainability at every stage. We began working on a serial hybrid propulsion system many years ago when this technology had yet to be widely accepted in the market. Today, we have enhanced our technology and are constantly searching for new ways to make improvements. This ranges from new methods to cut harmful emissions, to paying attention to where our materials are sourced, and finding new technologies which respect the environment - everything that helps the environment while making it possible to use the yacht in total safety.

We are committed to blending the latest innovations and technologies in harmony with the sea and its environment.

This raises interesting questions for future staffing: with the increasing use of technologically advanced components such as the electric and hybrid propulsion, now more than ever there is a need for highly qualified captains and crew.

This is needed both at a mechatronic level, and in Information Technology (IT), where the latter is also increasingly present in yachts. It remains important to support yachting academies, as well as the important Masters courses and professional schools for technicians.

From a commercial point of view, we now see the start of a normalisation in the market, which, however, is still showing considerable positivity and aim! After the sharp increase in activity over the past two years, the return of some calm to the market is normal but we still see plenty of demand and dynamism. Political events are worth keeping an eye on, however, if we are to avoid the risk of sudden crises.

As far as Wider is concerned, we are happy with what we have achieved so far in terms of orders, both for our superyacht production in Venice and for our brand-new production facility in Fano. We are comfortable that we are on the right track, particularly given the increasing demand for more and more sustainable yachts.

RINA provides an important boost to our activities and is a reassuring presence as we move to develop increasingly complex technological solutions. RINAs team of professionals are always available and ready to help find solutions for even the most awkward technical issues.

We see our collaboration as the ultimate “problem solver”, with RINAs technicians working in tandem with our engineering and production departments to resolve issues quickly and efficiently, while always safeguarding the safety of the boat.

Scan the QR code to learn more about
Wider
The yachting industry is constantly expanding, and it is becoming increasingly clear, especially in this post-pandemic era, that new needs and trends have been created. Yachts are seen more and more as ‘private islands’ of freedom and safety, where most of the time on board is spent with guests.

Ferretti Group is a true leader in this respect, with a strong commitment to sustainability. This new group of owners, however, brings with it new needs and trends that the industry has to address. In the short term, the yachting industry is trying to meet needs, mainly related to the issue of sustainability; in the long term, there will be other challenges that will keep the industry alive and continue to fuel its growth.

This year, Ferretti Group published its third Sustainability Report, confirming our commitment in this area. We work to reduce our environmental impact both before and after delivery, focusing our efforts on reducing the weight of our hulls and therefore energy consumption, on the search for alternative and sustainable materials, and on research into hybrid and electric engines.

Digitalization and the integration of new technologies into the yachting industry are also expected to have a profound impact on the market. With advancements in artificial intelligence, data analytics and the Internet of Things (IoT), yacht owners and operators can benefit from increased efficiency, enhanced safety, and improved user experiences.

Our brand CRN is investing in a new concept of megayacht with high-level technology. Innovation is inside CRN’s DNA: in 1983, CRN designed and built the first diesel electric true explorer vessel in the pleasure yachting world, the 32.8-metre F100 for the head of Fiat Group Gianni Agnelli. Designed for long voyages in all weather, it was the first with floating rubber supports, a type of soundproofing that presaged the active noise cancellation technology developed 20 years later.

Today, CRN is in the vanguard of research into hybrid propulsion, emissions reduction, efficiency improvement and sustainable technologies, as well as into new weight-reduction systems to make our shipyard operations more efficient too. This is where our IMO Tier III certification comes in – CRN was the first shipyard in Italy to achieve it – along with the trigeneration plant installed in Ancona to produce clean electricity and heating/cooling energy.

Elsewhere the group continues to grow with the recent acquisition of a new 70,000 square metre production site, including a dry dock, in San Vitale in the province of Ravenna. Ravenna is the right production centre for Wally sailing yachts and the expansion of our other brands, starting with the extraordinary Ferretti Yachts INFYNITO and new wallywhy ranges. The operation is part of Ferretti Group’s growth strategy, and when fully operational the new plant will increase production capacity.

Throughout we expect to be accompanied by RINA, with whom we have worked for many years. In fact, the Group was one of RINA’s first yachting clients. We have collaborated extensively from the outset, especially on very large luxury yachts, in a relationship that has always been synergistic.

One example of this is our co-development of a regulation to apply to electric boats, one that does not exist yet, using RIVA’s El-Iseo - the first full electric powerboat prototype, packed with technology and innovation - as a benchmark.

This for us is the most effective demonstration of how RINA is one of the most important certification body in the world, and how we work together in an open and synergetic relationship to improve regulations for luxury yachts, making them increasingly safe for guests, crew and the environment.

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This is a very dynamic period for the nautical sector. The changes taking place in the industry as we move through the energy transition affect every stakeholder, from manager to financier, to shareholder and client.

In the short term, we expect to see more clarity in the different technologies chosen. There are three key words here in making that choice: efficiency, modularity and integration.

In the longer term, we see three main options: electric navigation and a move towards lighter and more fire-resistant batteries; hybrid systems for short coastal distances and to attain more autonomy in longer navigation; and further development in new fuels such as bio-diesel, Hho, methanol, ethanol and ammonia until the arrival of pure hydrogen.

The feasibility of each option will depend on landside re-charge capabilities, on-board storage capacities, and the availability of green energy sources, including the next generation of small-size nuclear plants.

Being part of the 4th industrial revolution is exciting, although it requires significant investment in R&D and there is always a risk of failure as some technologies fall by the wayside. Sharing knowledge and experiences is key to minimizing these risks.

Luckily, our clients are also entrepreneurs who share the same goals when it comes to sustainability. The new generation of yacht owners is particularly sensitive to the need for environmental solutions throughout the supply chain. The Permare Group

Barbara Amerio is the CEO, Sustainability Manager and family Partner of Permare Srl, a shipyard founded by her father Fernando Amerio in 1973, which this year celebrates 50 years of activity in the ship servicing and construction sector.

Barbara joined Permare in 1989 as Sales and Export Manager. She was instrumental in the company's international development and has expanded the company's exports into new markets in the US, the Middle and Far East, the Nordic and Balkan countries, Europe and the Caribbean.

In 1996, she qualified as a yacht broker, becoming the first woman to obtain the title n. 19 of 18.01.1996 Cciao Imperia and Cuneo. She continues to provide brokerage services and consultancy to clients of Permare.

Today, Barbara is coordinator member of Confindustria Nautica’s sustainability committee, and a member of Confindustria’s national environment technical group.

Barbara has participated in 35 editions of the Genoa Boat Show and all the editions of the Cannes Boat Show as an exhibitor and sales manager, first with the Raffaelli brand and then with her own Amercraft brand, now Amer Yachts. (Amer Yachts) is in the process of signing the first contract in which it is expressly requested that only sustainable materials be used for the interior decor.

Our Group was also one of the first to adopt an entire-supply-chain approach to sustainability, in addition to the traditional focus on emissions and fuel consumption.

We also believe in open innovation, sharing our goals with the whole yachting sector and contributing regularly to the various sustainability groups. This enables the industry to identify who is doing what, thereby avoiding duplication and an unnecessary waste of time and financial resources.

We are pursuing other projects that combine protection of the environment with greater onboard comfort. On the large yachts, there are standard noise and vibration limits to be respected and we have found RINA Consulting’s service on noise and vibrations very useful. External confirmation of results by an independent source is the best way to verify standards.

Another example of our commitment to sustainability is our campaign to reduce speeds when sailing close to land, thereby consuming less fuel and protecting the marine environment.

This campaign, launched in 2022 by Amer Yachts and called “Go Slowly”, proposes a maximum sailing speed of 15 knots within 3 nautical miles of the Italian coast. As well as reducing consumption, this will protect the marine habitat, reduce noise pollution and decrease the risk of accidents along this busy coastline.

A total of 29 yachting companies have already signed up to the campaign including Denison Yachting, My Sea, YachtClass and Marina di San Lorenzo, as well as Italy’s representative at the European Commission (EC).

Sustainability is a very complex subject that can be put into practice only through single actions that, together, work sustainably. So, we devised something simple and practical that could be adopted by a large number of pleasure boaters. This also helps us look toward the future, where there will be boating of all kinds, from hybrid to electric, involving vessels that might be a bit slower.

We also have two important projects with Gs4c and Polimi for the development of new sustainable materials. With GS4C, we are replacing fiberglass with the volcanic fibre Filava made by Isomatrix, which is composed of enriched volcanic rock and can be recycled indefinitely. Filava is also softer and easier to handle than fibreglass, and has a higher fire resistance. We believe this will set a new standard for sustainable composite manufacturing.

When it comes to classification, we have enjoyed a long relationship with RINA, which now goes far beyond certification. We are proud to have incorporated RINAs consultant services into our large vessel contracts, and these have been accepted and welcomed by our international clients.

We are also using RINAs Green Plus additional class notation, which provides an external evaluation of the ship’s environmental friendliness.

RINA has also classified innovative projects such as our Basalt fibre certification, and Amer Yachts 94’s competition for a place in the Guinness Book of World Records as the most efficient motor yacht in its class.

With RINA, we feel like we are part of a family which is working together towards a common goal of increasing efficiency and achieving sustainability.
Palumbo: a pioneer in sustainable yachting

Interview with Gianpaolo Lapenna, Chief Operating Officer of Palumbo Superyachts

Photo courtesy of Palumbo Superyachts

Despite the difficulties of the past few years, like many in the industry we remain extremely busy, and are making good progress in achieving our medium-term targets. We are moving to medium-term targets. We are moving to...
A long-term approach to sustainability

Interview with Giovanna Vitelli
Chair of Azimut Benetti S.p.A.

Photo courtesy of Benetti S.p.A.

What are the group’s other contributions in the development of a sustainable and environmentally-friendly culture?

The most recent outcome of our “Green Path” commitment to sustainability is our recent agreement with Eri Sustainable Mobility, positioning our Group at the forefront of decarbonizing the yachting industry by introducing HV电机，a fuel derived from renewable raw materials. When considering the entire logistics production chain, the biofuel achieves emission reductions of up to 90% compared to the baseline fossil fuel mix.

Our Group is the first to replace fossil fuels with biofuel in sea trials, technical tests, and prototype transportation. Together with Eri Sustainable Mobility, we are developing a distribution network to enhance accessibility to HVO biofuel.

How does the new owner generation feel about yachting sustainability?

We strongly believe that the future of boating must offer environmentally sustainable solutions and it is our duty to educate and push future generations to embrace them.

For instance, if we look at Benetti’s BYOND series, more than half of the units sold have been equipped with the “green” option featuring the Siemens hybrid engine. Despite the higher cost associated with this choice, new owners have consistently opted for it. This trend highlights the growing commitment of the new generation to sustainability.

Digitalization and new technologies are topics of paramount importance. How will they affect the market?

Thanks to my father’s pioneering vision, our group made significant investments in technology, introducing several revolutionary solutions for the marine industry. Just like our early investment in the pod propulsion system, which is now widely recognized as the best and most efficient system for yachting, or the introduction of carbon fiber process, industrialized internally in our shipyard, to lighten the yachts.

Augmented reality is another example of technology enhancing production. It contributes to faster, more precise, and efficient design processes. This technology allows for immediate and realistic visualization of spaces, dimensions, and heights. Moreover, new technology is enhancing owners’ on-board experiences by providing advanced electronic solutions that seamlessly connect with their digital devices.

The BNow 50m: how will this new style of yachting change life on board?

Our Benetti BNow yachts, ranging from 50 to 72 meters, showcase innovative design and advanced construction technology. Notably, the “Fantasia,” one of the 18 units sold of the BNow 50 meters, has been produced in just 10 months. Designed in collaboration with the UK-based RWD studios, BNow yachts offer a variety of layout options. The first is quite traditional, while the second incorporates our innovative OASIS DECK®. This option features an infinity pool seamlessly integrated into the flush deck, effectively transforming the design to create a new informal style of living on board. By removing barriers between the main salon and the sea, we have created a vast, multifunctional area dedicated to entertainment, socializing, and relaxation. This design allows for an unparalleled connection with the sea.

What are the main challenges in the nautical market, particularly for Benetti?

Lusben, already established as one of the leading refit hubs in the Mediterranean, is now expanding its expertise to large yachts over 100 meters in length. To achieve this ambitious goal, we have strengthened the entire organization, improved the quality of services, and upgraded infrastructure. We expect these improvements to bring new growth and job opportunities.

What is your relationship with RINA and what do you value from this membership?

In many of these projects, RINA has worked closely with us. Our partnership initially centered around ship classification but has evolved into a collaboration in the field of technical innovation.

Currently, we work together as solution providers, addressing various aspects pertaining to energy transition and sustainability. Our cooperation spans activities such as providing green class notations, conducting risk assessments for hybrid systems, and performing comprehensive product life cycle assessments.

Through this collaborative effort, our shared objective is to drive positive change and support the industry’s transition toward a more sustainable future.

In addition to her role at Azimut Benetti, Giovanna joined the Board of Directors of several companies including Lusben Varazze Srl, Varazze Marina, Breithorn Srl, and Buzzi Unicem SpA. Giovanna also sits on the executive committee of Boot Messe Düsseldorf, which manages the organization of the Messe Düsseldorf International Boat Show, and is Vice President of Sybbas, the international association of large megayacht manufacturers. Since 2018, she is the Honorary Consul of Norway for Piedmont.

Giovanna Vitelli is the Chair of Azimut Benetti SpA, the largest luxury yachting group in the world, founded by Paolo Vitelli in 1969. Giovanna was born in Turin and graduated with honors in Law from the University of Turin. She began her career at the leading law firm Bonelli Erede Pappalardo, dealing mainly with corporate transactions and mergers and acquisitions.

Giovanna joined the Board of Directors of Azimut Benetti in 2000, and subsequently became Executive Vice President with responsibility for R&D and the development of new models. She was closely involved in the push towards innovative propulsion solutions and the use of designers from beyond the yachting world.

She was appointed Chair of Azimut Benetti in March 2023.
Reducing onboard motion sickness

By Dario Bruni, Head of Marine Digital Class Solutions, RINA
dario.bruni@rina.org

Without doubt, one of the most important features of a megayacht is to provide owners and guests with exceptional onboard comfort.

For many years, RINA has offered cutting-edge services to measure and control yacht noise and vibration. These two elements are arguably the most significant sources of potential discomfort on a yacht. However, recent developments in this area have brought such issues under control, to yacht owners’ satisfaction.

Another issue, which is now receiving more attention, is the movement of the boat generated by waves in certain weather conditions.

For this reason, a modern megayacht is rarely built without stabilizers. These systems contribute to reducing the roll and pitch of a vessel whether navigating or at anchor.

Stabilizers not only increase comfort dramatically, but also improve onboard safety, potentially expand the yacht’s cruising areas, and can even contribute to decreasing fuel consumption, enabling owners to pursue the most efficient sailing route.

To assist with this issue, RINA has developed a new, additional class notation focused on the wellness of the passengers onboard, and specifically assessing the performance of yachts in respect to motion sickness comfort. The notation will be known as “CONF-STAB”.

“RINA has a long and consolidated experience in new technologies applied to the marine sector, and specifically in Computational Fluid Dynamic (CFD) calculations,” observes Alessandro Grasso, RINA’s Senior Marine Technician and expert in Computational Fluid Dynamic (CFD) calculation.

CFD is a computational technology that enables users to study the dynamics of “flow”. Using CFD, a computational model is built enabling the user to predict motions and accelerations induced by the waves on the yacht.

This in turn predicts the accelerations suffered by passengers on board in different spaces and locations.

RINA’s system will be further enriched with real-time measurements from sea trials, in order to assess the exact efficiency of stabilization systems.

Fiorenzo Spadoni, RINA North Europe Region Senior Director, explains: “The aforementioned seakeeping performances will be translated into a rate. This will represent the predicted quality of life onboard with respect to accelerations perceived by the guests, and possible sea sickness effects.

RINA “CONF-STAB” notation will provide shipbuilders with a measurable index of the wellness quality of their yachts, enabling them to refine and improve future motion sickness levels.”
Shining the spotlight on marinas

By Alessia Castellana, Personnel Product Manager, RINA
alessia.castellana@rina.org

While attention is often focused on the yacht and its specifications, clients’ choice of marina remains a key element in ensuring an enjoyable and successful trip.

RINA’s MaRINA Excellence is a third-party certification scheme under which yacht marinas are audited, evaluated and certified to a RINA-set technical standard, in order to help yacht owners choose the most suitable port of call.

This certification takes into account a wide range of onshore elements from port facilities, tourist services and sustainability policies. The scheme aims to help owners choose the marina which best suits their needs by providing a recognizably standard covering all the aspects governing their choice.

As well as the aforementioned services, the scheme also evaluates how well the marina integrates into the local tourist infrastructure, and how well it performs on a number of environmental yardsticks.

Marinas themselves can also use the scheme to benchmark their own performance, identify critical points of operation, and set new operational goals. In doing so, marinas can offer added value to stakeholders, and develop potential new tourist experiences fully aligned with the socio-economic conditions of the region.

Evaluation of the marina is based on a points system, with marks assigned to items on a specific checklist, which are then weighted in terms of significance.

The overall classification of a marina under the MaRINA Excellence certificate is based on the average of the three following areas:

- Port services: evaluation of the quality and diversity of marina services, i.e. berthing facilities, fuel supply, availability of accommodation for permanent and in transit yachtsmen, provisioning, boat storage, repair yards and charging points.
- Tourist services: evaluation of the tourist-related activities that the marina the immediate surrounding area can offer. In this context, the marina is not considered as a stand-alone facility but as a port of access to the territory.
- Sustainability: the marina’s commitment to environmental protection and safety.

MaRINA Excellence also offers several additional class notations, highlighting the unique elements of a marina.

The 24PLUS notation verifies that the port can accommodate larger yachts and megayachts over 24 metres, while the 50 Gold notation indicates boats over 50 metres can be safely moored at the marina.

RINA’s LUXURY notation is an advanced award for those marinas that provide high-level amenities such as, for example, concierge services, large and exclusive spaces, private swimming pools, wellness centers, or a champagne bar.

Finally, RINA’s GREEN notation is awarded to marinas where attention to environmental aspects is particularly marked.

In the yachting sector, the international Conventions are often not fully, or even partially, applicable to yachts, even when the vessel is operated commercially under charter.

In this scenario, it is the responsibility of the Administration to clearly define the regulatory framework in which yachts must be built.

The Flag Administration must decide which approach to adopt for the registration of yachts, whether engaged in trade (chartered) or used privately.

Some Flag State Administrations have opted to create their own Safety Code for yachts operated commercially. Here, they have developed solutions similar to the requirements of SOLAS, ILLC and other conventions that are suitable for the yachting sector.

Among these Administrations, a limited number have also obtained IMO approval that their Codes meet the equivalent standard of SOLAS and ILLC for those chartered yachts that would otherwise fall under the scope of the Conventions.

At the beginning of last year, RINA has been appointed by the SuperYacht Builders Associations to carry out a technical comparison of the 3 most used Safety Codes for yachts: REG, Marshall Islands and Malta. The scope was to evaluate how and where they are similar or significantly different in terms of technical requirements.

For this job, the REG Code 2019 (the Rules for yachts engaged in trade carrying up to 12 passengers engaged in trade development by the Red Ensign Group Administrations), the CYC2020 (the Rules For yachts engaged in trade carrying up to 12 passengers engaged in trade developed by Malta Authority) and MI 103:2021 (the Rules For yachts engaged in trade carrying up to 12 passengers engaged in trade developed by Marshall Islands Administration), with no limitation in gross tonnage have been chosen, being clearly the most used Safety Codes for the newbuilding worldwide.

The focus was on yachts of more than 24 meters in Load Line length and all the requirements included in the Codes were compared, the ones normally delegated to the RO, such as structures, watertight integrity and fire protection but also the ones normally verified directly by the Administrations such as MLC and navigational equipment.

The idea was to show the technical approach to each subject taken by the different Codes and how this influences the building of a yacht of that size.

One of the outcomes of this comprehensive assessment was that for the topics where the Rules of the RO are recalled (structure for example) the 3 Codes were pretty much aligned, while in the typical statutory matters (such as fire protection) some major differences could be found.

This exercise contains also several new proposed technical solutions based on the merger of the 3 Codes and the shipyards best practice accepted on a case by case basis in the past projects.

We do think this document could represent a really good instrument for the industry in the application of the various yacht codes and it shows the RINA commitment to support the sector in streamlining and making more efficient the regulatory framework without any compromise on the safety aspects.
RINA’s Green Committee attracts major stakeholders

By Giorgio Gallo, Yachting Sector Senior Business Development Manager, RINA
giorgio.gallo@rina.org

In July, RINA held its second annual Italian Superyacht Green Technical Committee in the coastal town of Viareggio, Tuscany.

The Committee was created by RINA to address the technical issues that arise from yachting’s energy transition as the industry moves towards decarbonization. The annual meeting aims to provide a key forum for stakeholders to meet and debate issues, and discuss sector-specific topics related to the ‘Green Transition’.

More than 50 delegates from around the country attended the meeting, and the agenda provided opportunities to share experiences, energy solutions, as well as the technological updates taking place internationally.

This year, the Committee was also opened up to key suppliers in the energy space. Such partnerships will be key to achieving success in the green transition. Savario Cecchi, President of Confindustria Nautica and a board member of GP Yachts Srl, opened the meeting by welcoming participants and praising the initiatives taken by the Italian yachting industry over the past century.

“The history of the Italian yachting industry started a long time ago with wooden sailing yachts, and indeed the creation of the first glass-reinforced boat right here in Viareggio. We are very proud that these great traditions continue today”, said Mr Cecchi.

The latest update from the International Maritime Organization (IMO) on the new emission targets of the maritime sector were among the topics covered at the meeting.

Lorenzo Pollicardo, Chairman of the Green Technical Committee and Technical director of Sybass, provided a comprehensive update on the latest IMO news, and also gave an overview of developments in ISO standards relating to the yacht industry.

Giuseppe Zagaria, RINA’s Marine Technical Director, added a summary of the key meeting of the IMD’s Marine Environment Protection Committee (MEPC 88) in July, where international delegates voted to adopt stricter emissions controls.

As mentioned, the Committee this year welcomed important suppliers in the energy space, including ABB, Siemens and Nuvera e Weichai Power Innovation. Delegates from these companies provided the latest news on alternative fuels and yacht electrification, including their experiences with fuel cell and methanol propulsion.

Elsewhere in the programme, Stefano Bertolone, Senior Director at RINA’s Marine Special Ships Business Development, outlined RINA’s long-term commitment to the yachting sector and the range of experts on hand to provide support. This includes of course assistance with digitalization, which has become a fundamental element of yachting.

Digitalization was the focus of the section led by Fiorenzo Spadoni, RINA’s Senior Director for Marine (North Europe Region) and Brandon Kertesz, RINA’s Digital Business Development Manager, who presented a wide range of new digital products. In particular the innovative features of Sertica Yacht that represents a backbone of RINA MAXIMA, branded dedicated to superyachts.

Finally, Laura Occhiodoro, Head of RINA’s Yachting Excellence Centre, presented the forthcoming new RINA Rules for Yachting, which will be available for clients from January 2024 onwards and will simplify substantially the fruition of the technical content organizing it in a better and more efficient format.

The Digitalization of Yachting

By Brandon Kertesz, Digital Business Development Manager, RINA
brandon.kertesz@rina.org

In response to the growing needs of the yacht industry, RINA has developed a series of Digital Products and Services in order to meet the market’s requirements and capabilities.

The RINA Yachting Digitalization Initiative addresses the challenges arising from the wide-ranging technological advances being made in data collection, communication, and decarbonization. Among the initiatives being undertaken is the expansion of RINA’s pioneering cloud-based yacht maintenance software, Sertica Yacht.

Designed to improve reliability and safety, Sertica Yacht offers a real-time system to plan and manage onboard work efficiently. Sertica Yacht supports operators, shipyards and management companies in their efforts towards achieving sustainability, while still emphasizing the use of data to improve vessel design and operational efficiency.

RINA’s Digital Yachting Products include planned maintenance, fleet management, a digital twin, and performance monitoring capabilities tailored to the yachting sector.

Going forward, Sertica Yacht will have the ability to interface directly with a “digital twin” of the asset, which allows for real-time, on-board and remote access to the performance information of a yacht in its different operational profiles, whether at Berth, On-Anchor or At Sea.

Owners and operators can use data collected on the performance of equipment in each operational profile to finetune operations and optimize functions, thereby improving fuel consumption and emissions, while better managing such elements as electric loads, stabilizers and air conditioning systems.

For their part, Managers can make quick and easy comparisons within their fleets to identify individual areas of improvement. Meanwhile the information collected can help builders and designers to improve equipment performance on future designs.

The Sertica Yacht Digital Twin also aids shipbuilders’ aftersales departments in their support of crews and management companies.

Real-time data allows the yard to quickly identify any problems post-delivery and direct crew to the best resolution. It can also play a key role in crew changeovers, where there are often issues of crew familiarization. Sertica Yacht Digital Twin provides crews with access to the vessel’s visual layout, maintenance history, and tutorials for equipment operation, prior to arrival on-board.

This can significantly reduce down-time and enable crew members to quickly gain an understanding of the vessel.

RINA is upgrading other digital elements under RINA MAXIMA, its specialized digital tool suite for custom megayachts.

New Digitally Enhanced Surveys will leverage the existing data bank of equipment information to generate a complete digital equipment profile of the vessel. This can be updated and maintained throughout the life cycle of the yacht.

First, an in-depth profile is established during the vessel’s construction, which is then subsequently updated at each survey. RINA surveyors will then amend the profile accordingly as equipment is replaced during the life of the yacht.
Yachting is a relatively new sport and lifestyle choice in China. However, it has been gaining in popularity in recent years thanks to the growing number of wealthy Chinese, together with the government’s investment in the development of the country’s water sports industry. This investment has led to the establishment of marinas and yacht clubs in major coastal cities such as Shanghai, Shenzhen and Hainan.

The yachting industry in China is still facing several challenges that need to be addressed in order to grow and thrive. One of the biggest challenges is the lack of awareness and understanding of the sport among the Chinese population. This is slowly changing as more Chinese people are exposed to yachting through international events and the growing number of yacht clubs and marinas.

Another challenge is the high cost of yachting in China. Yachts are expensive to purchase, once the high tariff and maintenance costs are taken into account, and there is little financial support for yachting. However, there are exceptions, such as in the Hainan province, which has a growing market for yacht charters and rentals, making yachting more accessible to a wider range of people.

Despite these challenges, the future of the yacht industry in China looks bright. Having realized the importance of the yachting industry, China’s Ministry of Industry and Information Technology (MIIT) and the National Development and Reform Commission (NDRC), the Ministry of Finance (MOF), the Ministry of Transport (MOT), and the Ministry of Culture and Tourism (MCT) on August 18, 2022 jointly released the Guidelines on Accelerating the Development of Cruise and Yacht Equipment and the Industry (Guidelines).

The guidelines clarify China’s roadmap for the development of the yacht industry through 2025 and set four development goals to achieve in the industry by 2025: improving the design and construction capacity, refining the foundation of the equipment industry, expanding demand in the consumer market, and strengthening cooperation and talent cultivation.

Furthermore, some local governments such as Hainan province in 2021 implemented a zero-tariff policy on the import of vehicles and yachts, under which those registered enterprises in Hainan engaged in the transportation and tourism sectors are exempt from import duties when importing vehicles, aircraft, ships and yachts.

In July 2022, the Hainan government issued new regulations to promote the development of the yacht industry in the Hainan free trade port. Under these new regulations, overseas residents who work in Hainan and obtain a residence permit are also allowed to apply for yacht registrations in Hainan, as part of the efforts to ramp up yacht sales.

With this government support, the yacht business in Hainan Province is flourishing. In the first two months of 2023, the Hainan city of Sanya received 291,600 yacht ‘tourists’, up 24.4% year-on-year, according to a report by the Sanya Daily. Up to first quarter of 2023, there are 1,680 registered yachts in Hainan, according to a yacht industry development plan released by Hainan transportation authority, and the number of registered yachts in Hainan is set to hit 2,446 by 2025, and the province’s yacht industry scale will exceed 10 billion yuan ($1.5 billion) by 2025.

In addition to the demand side of yacht industry, there are also developments on the production side, that is, in China’s yacht building. Over the past decade, the yacht building industry in China has been experiencing growth, and is now emerging as a major player in the global market. Chinese shipyards are gaining a reputation for producing high-quality yachts at competitive prices. However, the building industry still faces several challenges, however, such as the lack of brand recognition, and the absence of a mature supply chain.

However, with the government’s support and the growing expertise of Chinese builders, the industry is well-positioned to become a major player in the global yacht building market. As Chinese shipyards continue to invest in research and development, and improve the quality of their yachts, they will be better equipped to build a strong reputation in the global market. RINA is already cooperating with and providing classification services to Chinese builders such as Heysea Yachts and Cheoy Lee Shipyards to support them in their quest to build higher quality and more widely recognized yachts.
This year, RINA will celebrate its seventh year of collaboration with Sunreef Yachts, the world’s leading designer and manufacturer of luxury sailing and power multihulls and catamarans.

Since its initiation in 2016, the partnership has demonstrated that uncompromising quality and environmental responsibility can go smoothly hand in hand. Through a series of initiatives, the partners have set new benchmarks in certification services and fostered innovation in sustainable yacht design.

Gdansk-based Sunreef Yachts made history in 2003 when it launched the world’s first oceangoing luxury catamaran with a flybridge, the Sunreef 74 CHE, and the company is known for constantly pushing the boundaries of multihull design.

A recent project saw RINA support the pursuit of a new level of sustainability through the company’s “Eco” line of yachts. RINA’s dedicated team of engineers and surveyors worked closely with Sunreef Yachts on a daily basis, providing comprehensive support and guidance, assisting the company in the process of developing a suite of new products.

The new range of battery-fuelled yachts, known as “Sunreef Yachts Eco”, are equipped with the world’s first and only composite-integrated solar panel system, maximizing energy generation and minimizing carbon emissions.

Meanwhile, the electric-fuel propulsion system is fitted with the lightest batteries currently available in the industry, providing the best mix of autonomy and energy efficiency for environmentally-conscious luxury cruising.

The vessels also come equipped with naturally-sourced sustainable materials such as basalt and flax-based green composite, a smart energy management system, and other new technologies including a patent-pending solar skin produced in-house.

As part of its ‘Eco’ range, Sunreef Yachts has now been commissioned to build a pioneering 80-foot sailing catamaran powered only by hydrogen and solar power.

While electric crafts are powered by electric batteries that are recharged by plugging into an electrical outlet, hydrogen-powered crafts use a fuel cell to convert hydrogen gas into electricity to generate power. These Hydrogen catamarans are more fuel efficient and have a smaller environmental impact than traditional yacht designs.

The commissioned yacht will also feature Sunreef Yacht’s patent-pending solar power system, with solar cells integrated into the composite bodywork.

RINA’s engineers have accompanied the company in each step of the ‘Eco’ process, ensuring that Sunreef Yachts’ boats not only meet regulatory requirements but also embody excellence in safety, performance, and quality.

In addition to developing new products, RINA is providing Sunreef Yachts with a wide range of certification services, including CE certification and compliance with the Malta Yacht Code and MCA SCV Code. These guarantee that Sunreef Yacht’s boats meet the highest international standards, instilling confidence in both stakeholders and clients alike.

This collaboration serves as an inspiring example for stakeholders across the industry, and reinforces RINA’s commitment to driving innovation and excellence in the world of yachting.

Such initiatives are redefining the concept of yachting, and achieving new levels of sustainability without comprising luxury.
Showcasing RINA

SALONE NAUTICO DI GENOVA
21-26 Sept 2023, P.le John Fitzgerald Kennedy,
16129 Genova, Italy
Sponsored by RINA

MONACO YACHT SHOW
27-30 Sept 2023, 7 Rue Suffren Reymond,
98000 Monaco
We look forward to meeting you at
RINA Booth N. D687 / DARSE SUD
With the kind collaboration of Paola Lenti

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