+44 20 8123 2220
info@marketpublishers.com

Electric Boats Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Boat Size (Less than 20ft, 20-50ft, More than 50ft), By Boat Power (Less than 5kW, 5-30kW, More than 30kW), By End Use (Recreational Boats, Commercial Boats, Military & Law Enforcements Boats), By Region, By Competition, 2020-2030F

https://marketpublishers.com/r/E32E00BAAE5DEN.html
Date: January 2025
Pages: 185
Price: US$ 4,500.00 (Single User License)
ID: E32E00BAAE5DEN

Abstracts

The Global Electric Boats Market was valued at USD 3.80 Billion in 2024 and is expected to reach USD 7.79 Billion by 2030 with a CAGR of 12.77% during the forecast period. The rising urbanization, improved standards of living, and increased disposable income are driving the demand for recreational boating activities. Electric boats are not only utilized for leisure and fishing but also for various purposes such as sea patrolling, monitoring criminal activities like smuggling, and conducting rescue operations efficiently. Additionally, the growth in tourism, the rising trend of boat leasing, and increasing boat transportation needs are further boosting the demand for electric boats worldwide. These factors are expected to significantly contribute to the substantial growth of the electric boat market.

In accordance, the International Maritime Organization (the U.N. regulatory arm for maritime transport) has committed to slashing ships' carbon intensity by 40 percent as soon as 2030, a goal that the CLIA has likewise pledged. Stricter local regulations are also adding pressure: In Norway, greenhouse gas-emitting ships will be banned from its environmentally sensitive World Heritage fjords as of 2026, while local ports, most recently NYC, are moving to mandate that enabled cruise ships plug into shoreside power while in port.

+44 20 8123 2220
info@marketpublishers.com

Market Drivers

Environmental Concerns and Sustainability Initiatives

The growing awareness of environmental issues, particularly in relation to carbon emissions and water pollution, is a significant driver of the Global Electric Boats Market. As the world shifts toward sustainability, eco-friendly alternatives in various sectors, including boating, are gaining traction. Electric boats offer a clean and environmentally responsible mode of transportation, with zero emissions during operation and minimal impact on aquatic ecosystems. This is in direct contrast to traditional gasoline-powered boats, which contribute to air and water pollution. Many governments are also introducing regulations and incentives to reduce emissions and encourage the adoption of sustainable technologies. For example, several regions have imposed stricter emission standards for recreational boating, motivating manufacturers and consumers to opt for electric propulsion. Additionally, the growing desire for recreational activities that do not harm the environment is driving the demand for electric boats, especially among eco-conscious consumers. Regulatory frameworks and environmental initiatives are transforming the maritime industry, especially in developed regions. The United Kingdom is leading the way among G7 nations with its comprehensive Clean Maritime Plan, which mandates that all new vessels ordered from 2025 for UK waters must be equipped with zero-emission technology. This regulatory push is supported by similar initiatives in other regions, such as Norway's ambitious plan to ban all fossil fuel-powered ships from UNESCO Heritage-listed tourist sites by 2026, reflecting the growing commitment to sustainable maritime transport.

Advancements in Battery Technology

Another key driver of the Global Electric Boats Market is the significant advancements in battery technology, particularly in terms of energy density, charging speed, and overall efficiency. Electric boats rely heavily on battery power for propulsion, and improvements in battery technology have made electric boats more viable for both recreational and commercial use. The development of lithium-ion batteries, which offer higher energy densities and longer lifespans compared to older technologies, has been crucial in increasing the range and performance of electric boats. These batteries allow boats to travel longer distances without the need for frequent recharging, addressing one of the major limitations of early electric boats. Furthermore, innovations in fast-charging technology have reduced downtime, making electric boats more convenient and efficient for users. The industry is experiencing a rise in innovative solutions and strategic partnerships between technology providers and shipbuilders. In June 2023,

+44 20 8123 2220
info@marketpublishers.com

Kongsberg Digital introduced a revolutionary benchmarking application that offers real-time fleet monitoring and performance insights, underscoring the sector's shift toward digitalization and the adoption of smart technologies.

Government Incentives and Regulations

Governments around the world are playing a crucial role in driving the growth of the Global Electric Boats Market through the introduction of various incentives, grants, and regulatory frameworks. As part of broader sustainability goals, many governments are actively promoting the transition to clean energy solutions across industries, including the maritime sector. In several regions, consumers and businesses are offered tax credits, rebates, and subsidies when purchasing electric boats, making them more affordable and appealing to a larger audience. Additionally, regulatory measures aimed at reducing the carbon footprint of maritime activities are encouraging the adoption of electric boats. For instance, countries in Europe and North America are enacting laws to limit emissions from boats and ships, which is pushing manufacturers to develop more sustainable and energy-efficient solutions. The implementation of low-emission zones in popular waterways, along with financial incentives for businesses adopting electric fleets, further accelerates market adoption. These government-driven initiatives not only make electric boats more accessible to consumers but also create a favorable market environment for manufacturers, driving innovation and competition within the industry. In August 2023, a new amendment was introduced, offering a 20% subsidy for solar electric boats that are 12 meters or longer. Furthermore, boats powered by green fuels such as methanol, ammonia, and hydrogen would be eligible for a 30% subsidy. This move is certainly a positive development for the industry.

Key Market Challenges

High Initial Cost

One of the major challenges faced by the Global Electric Boats Market is the high initial cost associated with electric boats. While electric propulsion systems offer significant long-term savings in terms of fuel and maintenance, the upfront cost of purchasing an electric boat can be significantly higher than traditional gasoline-powered boats. The primary factor contributing to this high cost is the price of the batteries, which remain one of the most expensive components of electric boats. Although battery prices have been steadily declining, they still account for a large portion of the overall cost. Additionally, the integration of advanced technology and the need for specialized manufacturing processes further increase the cost. For many consumers, especially

+44 20 8123 2220
info@marketpublishers.com

those in the recreational boating segment, the high initial price can be a deterrent. Despite long-term savings on fuel and maintenance, the upfront investment required can limit the widespread adoption of electric boats, especially in price-sensitive markets. To address this, manufacturers need to focus on reducing production costs, improving battery technology, and providing financing or incentives to make electric boats more affordable and accessible to a broader consumer base.

Limited Range and Charging Infrastructure

Another significant challenge for the electric boat market is the limited range and inadequate charging infrastructure. Electric boats are generally constrained by the capacity of their batteries, which limits the distance they can travel before needing a recharge. This range limitation is a concern for both recreational boaters and commercial operators who require longer voyages or frequent usage. Many electric boats are suitable for short trips, but for longer excursions or operations in remote locations, traditional fuel-powered boats remain more practical. Additionally, charging infrastructure for electric boats is not as developed as that for electric vehicles on land. The availability of charging stations in marinas, docks, and other waterway locations is still limited, which makes it inconvenient for boaters to recharge during long journeys or after use. While advancements in fast-charging technology and the expansion of charging networks are underway, these issues still present significant barriers to the widespread adoption of electric boats. Addressing the range and charging infrastructure challenges is essential for making electric boats a viable option for a broader audience and encouraging more frequent use.

Key Market Trends

Advancements in Battery Technology

One of the major trends driving the Global Electric Boats Market is the continuous improvement in battery technology. As battery performance improves, electric boats are becoming more practical for a wider range of uses, including longer-distance travel and commercial operations. Advances in lithium-ion batteries, which offer higher energy densities and longer lifespans, have significantly increased the range and efficiency of electric boats. Additionally, the development of solid-state batteries, which promise even greater energy capacity and faster charging times, is expected to further revolutionize the market. These advancements are not only making electric boats more reliable and efficient but also contributing to cost reductions as economies of scale and technological innovations make batteries more affordable. The focus on battery

+44 20 8123 2220
info@marketpublishers.com

research and development is ensuring that electric boats can operate effectively for longer periods without the need for frequent recharges, making them a more attractive option for both recreational and commercial applications. As battery costs continue to decline, electric boats are becoming more accessible, accelerating the shift toward sustainable marine transportation.

Integration of Smart Technologies

Another prominent trend is the integration of smart technologies into electric boats, enhancing their functionality, safety, and user experience. Smart technology, including IoT (Internet of Things) devices, sensors, and autonomous navigation systems, is becoming increasingly common in modern electric boats. These technologies allow boat owners to monitor and control various aspects of their vessels remotely, such as battery levels, engine performance, and environmental conditions. Additionally, autonomous navigation systems are improving safety by reducing human error, enhancing route planning, and allowing for more efficient energy use. The rise of smart technologies in electric boats is helping to make them more convenient, reliable, and appealing to tech-savvy consumers. Furthermore, integration with mobile apps allows users to access real-time data on boat performance, maintenance schedules, and charging station locations, further increasing the accessibility and ease of use. As smart technologies continue to evolve, electric boats are becoming more intuitive and user-friendly, contributing to the overall growth of the market.

Segmental Insights

Boat Size Insights

The segment of electric boats less than 20 feet is dominating the global electric boats market. This is primarily due to their affordability, versatility, and suitability for recreational activities such as fishing, short leisure trips, and small-scale tours. These boats offer several advantages, including eco-friendliness, lower operating costs, and quieter operation compared to traditional gasoline-powered boats. Additionally, the growing emphasis on sustainability and environmental consciousness has driven the demand for smaller electric boats, particularly in urban and recreational settings. Manufacturers are continuously innovating in terms of battery efficiency, charging infrastructure, and design to enhance the appeal of these smaller boats. As electric boating technology continues to evolve, the under-20ft segment is expected to maintain a strong position, catering to both individual enthusiasts and those seeking environmentally responsible alternatives for on-water recreation.

+44 20 8123 2220
info@marketpublishers.com

Regional Insights

Europe & CIS dominated the global electric boats market, driven by strong regulatory support, environmental awareness, and a growing demand for sustainable recreational activities. The European Union has implemented stringent environmental regulations, encouraging the adoption of eco-friendly technologies, including electric boats. With a high level of environmental consciousness, European consumers increasingly prefer sustainable alternatives to traditional gasoline-powered boats. Countries like Germany, France, the Netherlands, and the UK have seen significant growth in electric boating due to an increasing number of electric boat manufacturers and extensive charging infrastructure. The region's strong maritime tradition, combined with the availability of water bodies for recreational use, further boosts the market's potential. Additionally, Europe’s commitment to reducing carbon emissions and promoting green technologies contributes to the rise in electric boat adoption. As a result, Europe remains the leading market for electric boats, with continued innovation and investment expected to fuel further growth in the coming years.

Key Market Players

- Brunswick Corporation
- Groupe Beneteau
- Greenline Yachts
- Candela Technology AB
- Silent Yachts
- Boote Marian Gmbh
- Duffy Electric Boat Company
- Vision Marine Technologies Inc.
- Grove Boats SA
- Ganz Boats GmbH

+44 20 8123 2220
info@marketpublishers.com

Report Scope:

In this report, the global Electric Boats Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Electric Boats Market, By Boat Size:

Less than 20ft

20-50ft

More than 50ft

Electric Boats Market, By Boat Power:

Less than 5kW

5-30kW

More than 30kW

Electric Boats Market, By End Use:

Recreational Boats

Commercial Boats

Military & Law Enforcements Boats

Electric Boats Market, By Region:

North America

United States

Canada

+44 20 8123 2220
info@marketpublishers.com

Mexico

Europe & CIS

France

Germany

Spain

Italy

United Kingdom

Asia-Pacific

China

Japan

India

Vietnam

South Korea

Australia

Thailand

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

+44 20 8123 2220
info@marketpublishers.com

South America

Brazil

Argentina

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the global Electric Boats Market.

Available Customizations:

Global Electric Boats Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

+44 20 8123 2220
info@marketpublishers.com

Contents

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

6. EUROPE & CIS ELECTRIC BOATS MARKET OUTLOOK

+44 20 8123 2220
info@marketpublishers.com

7. ASIA-PACIFIC ELECTRIC BOATS MARKET OUTLOOK

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

9. SOUTH AMERICA ELECTRIC BOATS MARKET OUTLOOK

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Electric Boats Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Boat Size (Less than 20ft, 20-50ft, More than 50ft), By Boat Power (Less than 5kW, 5-30kW, More than 30kW), By End Use (Recreational Boats, Commercial Boats, Military & Law Enforcements Boats), By Region, By Competition, 2020-2030F

Product link: https://marketpublishers.com/r/E32E00BAAE5DEN.html

Price: US$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/E32E00BAAE5DEN.html