

Global Marine Parallel Hybrid Propulsion Market Size study & Forecast, by Ship Type (Tugs & Barge, Offshore Vessel, Fishing Vessel, Research and Survey Vessel, Search and Rescue Vessel, Patrol Boats, Passenger Ship, Recreational Boats, Landing Crafts), By Engine Power Rating (Upto 150 HP, 150 to 500 HP, 500 HP to 1,000 HP, 1,000 HP to 3,000 HP), By Component (IC Engine, Generator, Power Management System, Battery, Gearbox, Others), By Instalment (Line Fit and Retro Fit), Motor Capacity (Upto 50 KW, 50 KW to 200 KW, 200 KW to 400 KW) and Regional Forecast, 2023-2030

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Abstracts

Global Marine Parallel Hybrid Propulsion Market is valued approximately at USD 0.90 billion in 2022 and is anticipated to grow with a growth rate of more than 11.9% over the forecast period 2023-2030. Marine Parallel Hybrid Propulsion is a propulsion system utilized in marine vessels that integrates both traditional internal combustion engines and electric propulsion systems in a parallel configuration. In this setup, both the conventional engine and electric motor are connected to the vessel's propeller shaft, allowing them to work in tandem or independently depending on the operational requirements. The parallel hybrid design offers greater flexibility and efficiency, enabling vessels to optimize their power sources based on factors such as speed, load and environmental considerations. The Marine Parallel Hybrid Propulsion market is expanding because of factors such as rising focus on fuel efficiency and operational

cost savings, increasingly stringent environmental regulations and a government incentives and funding,

The primary concern for ship owners revolves around fuel consumption in diesel engine propulsion systems. Factors such as volatile fossil fuel prices, heightened sulfur emissions, and a reliance on low-grade fuel have prompted major industry players to prioritize the development of hybrid propulsion systems. According to various marine journals, hybrid propulsion systems can effectively reduce NOx emissions by up to 40% through maximum load reduction. A report from the International Council on Clean Transportation (ICCT) suggests that the installation of a hybrid propulsion system on a container ship has the potential to cut fuel consumption by 10-20%. Another study supports these findings, indicating that hybrid propulsion systems could achieve fuel savings of up to 30% compared to traditional propulsion systems. These compelling statistics underscore the pivotal role of hybrid propulsion systems in curbing fuel consumption, thereby resulting in lower operating costs for maritime operators, resulting in market growth. In addition, increased shipbuilding and retrofitting activities and ongoing advancements in hybrid propulsion technology are creating new opportunities to the market growth. However, high initial costs and increase in complexity of propulsion system compared to conventional system stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Marine Parallel Hybrid Propulsion Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share. The regional market expansion can be attributed to the growing size of the marine fleet. Moreover, the market is being positively influenced by the heightened emphasis of various Original Equipment Manufacturers (OEMs) on research and development, along with the implementation of hybrid propulsion systems. In April 2022, the Canadian federal and provincial governments announced a significant injection of USD 3 million towards the adaptation of efficient hybrid and electric engines tailored for fishing vessels. This investment seeks to alleviate the initial financial burden for fishermen keen on incorporating hybrid systems, thereby streamlining the integration of hybrid fishing vessel systems. Notable beneficiaries include companies such as AKA Group and others operating within the hybrid propulsion market. Asia Pacific is expected to grow at a fastest rate during the forecast period, owing to upsurge in international trade, complemented by a rise in shipbuilding activities across countries like China, India, Japan, and others.

Major market player included in this report are:

ABB Ltd.

Rolls-Royce Holdings plc

Caterpillar Inc.

General Electric Company

Nidec Industrial Solutions

MAN Energy Solutions

Siemens AG

Mitsubishi Heavy Industries, Ltd

Wärtsilä Oyj Abp

Cummins Inc.

Recent Developments in the Market:

In March 2023, Cummins Inc. and Leclanché S.A. announced the execution of a Memorandum of Understanding (MOU). Under this agreement, a comprehensive array of hybrid, battery-only, or fuel cell package solutions will be made accessible to customers in maritime applications. Leveraging various energy sources such as engines, hydrogen fuel cells, battery packs, and ancillary components, this collaboration between Leclanché and Cummins aims to provide versatile solutions to the industry.

In October 2022, ABB and Incat Tasmania entered into a partnership to develop an electric ship featuring hybrid propulsion technology. This innovative design allows for seamless adaptation to battery energy utilization, facilitated by shore charging infrastructure availability. Through this collaboration, ABB endeavors to introduce a groundbreaking zero-emissions propulsion system and power solutions. Additionally, the agreement includes plans for the assessment of procuring 148-meter ferries and similar vessels in the future

Global Marine Parallel Hybrid Propulsion Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Ship Type, Engine Power Rating, Component, Installment, Motor Capacity, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Ship Type:

Tugs & Barge

Offshore Vessel

Fishing Vessel

Research and Survey Vessel

Search and Rescue Vessel

Patrol Boats

Passenger Ship

Recreational Boats

Landing Crafts

By Engine Power Rating:

Upto 150 HP

150 to 500 HP

500 HP to 1,000 HP

1,000 HP to 3,000 HP

By Component:

IC Engine

Generator

Power Management System

Battery

Gearbox

Others

By Installment:

Line Fit

Retro Fit

By Motor Capacity:

Upto 50 KW

50 KW to 200 KW

200 KW to 400 KW

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Marine Parallel Hybrid Propulsion Market, by region, 2020-2030 (USD Billion)
 - 1.2.2. Marine Parallel Hybrid Propulsion Market, by Ship Type, 2020-2030 (USD Billion)
 - 1.2.3. Marine Parallel Hybrid Propulsion Market, by Engine Power Rating, 2020-2030 (USD Billion)
 - 1.2.4. Marine Parallel Hybrid Propulsion Market, by Component, 2020-2030 (USD Billion)
 - 1.2.5. Marine Parallel Hybrid Propulsion Market, by Installment, 2020-2030 (USD Billion)
 - 1.2.6. Marine Parallel Hybrid Propulsion Market, by Motor Capacity, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL MARINE PARALLEL HYBRID PROPULSION MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL MARINE PARALLEL HYBRID PROPULSION MARKET DYNAMICS

- 3.1. Marine Parallel Hybrid Propulsion Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Rising focus on fuel efficiency and operational cost savings
 - 3.1.1.2. Increasingly stringent environmental regulations
 - 3.1.1.3. Government incentives and funding

3.1.2. Market Challenges

3.1.2.1. High initial cost

3.1.2.2. Increase in complexity of propulsion system

3.1.3. Market Opportunities

3.1.3.1. Increased shipbuilding and retrofitting activities

3.1.3.2. Ongoing advancements in hybrid propulsion technology

CHAPTER 4. GLOBAL MARINE PARALLEL HYBRID PROPULSION MARKET: INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.2. Porter's 5 Force Impact Analysis

4.3. PEST Analysis

4.3.1. Political

4.3.2. Economic

4.3.3. Social

4.3.4. Technological

4.3.5. Environmental

4.3.6. Legal

4.4. Top investment opportunity

4.5. Top winning strategies

4.6. COVID-19 Impact Analysis

4.7. Disruptive Trends

4.8. Industry Expert Perspective

4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL MARINE PARALLEL HYBRID PROPULSION MARKET, BY SHIP TYPE

5.1. Market Snapshot

5.2. Global Marine Parallel Hybrid Propulsion Market by Ship Type, Performance - Potential Analysis

5.3. Global Marine Parallel Hybrid Propulsion Market Estimates & Forecasts by Ship Type 2020-2030 (USD Billion)

5.4. Marine Parallel Hybrid Propulsion Market, Sub Segment Analysis

- 5.4.1. Tugs & Barge
- 5.4.2. Offshore Vessel
- 5.4.3. Fishing Vessel
- 5.4.4. Research and Survey Vessel
- 5.4.5. Search and Rescue Vessel
- 5.4.6. Patrol Boats
- 5.4.7. Passenger Ship
- 5.4.8. Recreational Boats

Landing Crafts

CHAPTER 6. GLOBAL MARINE PARALLEL HYBRID PROPULSION MARKET, BY ENGINE POWER RATING

6.1. Market Snapshot

6.2. Global Marine Parallel Hybrid Propulsion Market by Engine Power Rating, Performance - Potential Analysis

6.3. Global Marine Parallel Hybrid Propulsion Market Estimates & Forecasts by Engine Power Rating 2020-2030 (USD Billion)

6.4. Marine Parallel Hybrid Propulsion Market, Sub Segment Analysis

- 6.4.1. Upto 150 HP
- 6.4.2. 150 to 500 HP
- 6.4.3. 500 HP to 1,000 HP
- 6.4.4. 1,000 HP to 3,000 HP

CHAPTER 7. GLOBAL MARINE PARALLEL HYBRID PROPULSION MARKET, BY COMPONENT

7.1. Market Snapshot

7.2. Global Marine Parallel Hybrid Propulsion Market by Component, Performance - Potential Analysis

7.3. Global Marine Parallel Hybrid Propulsion Market Estimates & Forecasts by Component 2020-2030 (USD Billion)

7.4. Marine Parallel Hybrid Propulsion Market, Sub Segment Analysis

- 7.4.1. IC Engine
- 7.4.2. Generator
- 7.4.3. Power Management System
- 7.4.4. Battery
- 7.4.5. Gearbox

7.4.6. Others

CHAPTER 8. GLOBAL MARINE PARALLEL HYBRID PROPULSION MARKET, BY INSTALLMENT

8.1. Market Snapshot

8.2. Global Marine Parallel Hybrid Propulsion Market by Installment, Performance - Potential Analysis

8.3. Global Marine Parallel Hybrid Propulsion Market Estimates & Forecasts by Installment 2020-2030 (USD Billion)

8.4. Marine Parallel Hybrid Propulsion Market, Sub Segment Analysis

8.4.1. Line Fit

8.4.2. Retro Fit

CHAPTER 9. GLOBAL MARINE PARALLEL HYBRID PROPULSION MARKET, BY MOTOR CAPACITY

9.1. Market Snapshot

9.2. Global Marine Parallel Hybrid Propulsion Market by Motor Capacity, Performance - Potential Analysis

9.3. Global Marine Parallel Hybrid Propulsion Market Estimates & Forecasts by Motor Capacity 2020-2030 (USD Billion)

9.4. Marine Parallel Hybrid Propulsion Market, Sub Segment Analysis

9.4.1. Upto 50 KW

9.4.2. 50 KW to 200 KW

9.4.3. 200 KW to 400 KW

CHAPTER 10. GLOBAL MARINE PARALLEL HYBRID PROPULSION MARKET, REGIONAL ANALYSIS

10.1. Top Leading Countries

10.2. Top Emerging Countries

10.3. Marine Parallel Hybrid Propulsion Market, Regional Market Snapshot

10.4. North America Marine Parallel Hybrid Propulsion Market

10.4.1. U.S. Marine Parallel Hybrid Propulsion Market

10.4.1.1. Ship Type breakdown estimates & forecasts, 2020-2030

10.4.1.2. Engine Power Rating breakdown estimates & forecasts, 2020-2030

10.4.1.3. Component breakdown estimates & forecasts, 2020-2030

10.4.1.4. Installment breakdown estimates & forecasts, 2020-2030

- 10.4.1.5. Motor Capacity breakdown estimates & forecasts, 2020-2030
- 10.4.2. Canada Marine Parallel Hybrid Propulsion Market
- 10.5. Europe Marine Parallel Hybrid Propulsion Market Snapshot
 - 10.5.1. U.K. Marine Parallel Hybrid Propulsion Market
 - 10.5.2. Germany Marine Parallel Hybrid Propulsion Market
 - 10.5.3. France Marine Parallel Hybrid Propulsion Market
 - 10.5.4. Spain Marine Parallel Hybrid Propulsion Market
 - 10.5.5. Italy Marine Parallel Hybrid Propulsion Market
 - 10.5.6. Rest of Europe Marine Parallel Hybrid Propulsion Market
- 10.6. Asia-Pacific Marine Parallel Hybrid Propulsion Market Snapshot
 - 10.6.1. China Marine Parallel Hybrid Propulsion Market
 - 10.6.2. India Marine Parallel Hybrid Propulsion Market
 - 10.6.3. Japan Marine Parallel Hybrid Propulsion Market
 - 10.6.4. Australia Marine Parallel Hybrid Propulsion Market
 - 10.6.5. South Korea Marine Parallel Hybrid Propulsion Market
 - 10.6.6. Rest of Asia Pacific Marine Parallel Hybrid Propulsion Market
- 10.7. Latin America Marine Parallel Hybrid Propulsion Market Snapshot
 - 10.7.1. Brazil Marine Parallel Hybrid Propulsion Market
 - 10.7.2. Mexico Marine Parallel Hybrid Propulsion Market
- 10.8. Middle East & Africa Marine Parallel Hybrid Propulsion Market
 - 10.8.1. Saudi Arabia Marine Parallel Hybrid Propulsion Market
 - 10.8.2. South Africa Marine Parallel Hybrid Propulsion Market
 - 10.8.3. Rest of Middle East & Africa Marine Parallel Hybrid Propulsion Market

CHAPTER 11. COMPETITIVE INTELLIGENCE

- 11.1. Key Company SWOT Analysis
 - 11.1.1. Company
 - 11.1.2. Company
 - 11.1.3. Company
- 11.2. Top Market Strategies
- 11.3. Company Profiles
 - 11.3.1. ABB Ltd.
 - 11.3.1.1. Key Information
 - 11.3.1.2. Overview
 - 11.3.1.3. Financial (Subject to Data Availability)
 - 11.3.1.4. Product Summary
 - 11.3.1.5. Recent Developments
 - 11.3.2. Rolls-Royce Holdings plc

- 11.3.3. Caterpillar Inc.
- 11.3.4. General Electric Company
- 11.3.5. Nidec Industrial Solutions
- 11.3.6. MAN Energy Solutions
- 11.3.7. Siemens AG
- 11.3.8. Mitsubishi Heavy Industries, Ltd
- 11.3.9. Wärtsilä Oyj Abp
- 11.3.10. Cummins Inc.

CHAPTER 12. RESEARCH PROCESS

- 12.1. Research Process
 - 12.1.1. Data Mining
 - 12.1.2. Analysis
 - 12.1.3. Market Estimation
 - 12.1.4. Validation
 - 12.1.5. Publishing
- 12.2. Research Attributes
- 12.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Marine Parallel Hybrid Propulsion Market, report scope

TABLE 2. Global Marine Parallel Hybrid Propulsion Market estimates & forecasts by Region 2020-2030 (USD Billion)

TABLE 3. Global Marine Parallel Hybrid Propulsion Market estimates & forecasts by Ship Type 2020-2030 (USD Billion)

TABLE 4. Global Marine Parallel Hybrid Propulsion Market estimates & forecasts by Engine Power Rating 2020-2030 (USD Billion)

TABLE 5. Global Marine Parallel Hybrid Propulsion Market estimates & forecasts by Component 2020-2030 (USD Billion)

TABLE 6. Global Marine Parallel Hybrid Propulsion Market estimates & forecasts by Installment 2020-2030 (USD Billion)

TABLE 7. Global Marine Parallel Hybrid Propulsion Market estimates & forecasts by Motor Capacity 2020-2030 (USD Billion)

TABLE 8. Global Marine Parallel Hybrid Propulsion Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 9. Global Marine Parallel Hybrid Propulsion Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 10. Global Marine Parallel Hybrid Propulsion Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 11. Global Marine Parallel Hybrid Propulsion Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 12. Global Marine Parallel Hybrid Propulsion Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 13. Global Marine Parallel Hybrid Propulsion Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 14. Global Marine Parallel Hybrid Propulsion Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 15. Global Marine Parallel Hybrid Propulsion Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 16. Global Marine Parallel Hybrid Propulsion Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 17. Global Marine Parallel Hybrid Propulsion Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 18. U.S. Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 19. U.S. Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 20. U.S. Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. Canada Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 22. Canada Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 23. Canada Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. UK Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 25. UK Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 26. UK Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. Germany Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 28. Germany Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 29. Germany Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. France Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 31. France Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 32. France Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Italy Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 34. Italy Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 35. Italy Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. Spain Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 37. Spain Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 38. Spain Marine Parallel Hybrid Propulsion Market estimates & forecasts by

segment 2020-2030 (USD Billion)

TABLE 39. RoE Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 40. RoE Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 41. RoE Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. China Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 43. China Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 44. China Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. India Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 46. India Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. India Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. Japan Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 49. Japan Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. Japan Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. South Korea Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 52. South Korea Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. South Korea Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. Australia Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 55. Australia Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. Australia Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. RoAPAC Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 58. RoAPAC Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 59. RoAPAC Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Brazil Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 61. Brazil Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 62. Brazil Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. Mexico Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 64. Mexico Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 65. Mexico Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. RoLA Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 67. RoLA Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 68. RoLA Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. Saudi Arabia Marine Parallel Hybrid Propulsion Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 70. South Africa Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 71. RoMEA Marine Parallel Hybrid Propulsion Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 72. List of secondary sources, used in the study of global Marine Parallel Hybrid Propulsion Market

TABLE 73. List of primary sources, used in the study of global Marine Parallel Hybrid Propulsion Market

TABLE 74. Years considered for the study

TABLE 75. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Marine Parallel Hybrid Propulsion Market, research methodology
- FIG 2. Global Marine Parallel Hybrid Propulsion Market, Market estimation techniques
- FIG 3. Global Market size estimates & forecast methods
- FIG 4. Global Marine Parallel Hybrid Propulsion Market, key trends 2022
- FIG 5. Global Marine Parallel Hybrid Propulsion Market, growth prospects 2023-2030
- FIG 6. Global Marine Parallel Hybrid Propulsion Market, porters 5 force model
- FIG 7. Global Marine Parallel Hybrid Propulsion Market, pest analysis
- FIG 8. Global Marine Parallel Hybrid Propulsion Market, value chain analysis
- FIG 9. Global Marine Parallel Hybrid Propulsion Market by segment, 2020 & 2030 (USD Billion)
- FIG 10. Global Marine Parallel Hybrid Propulsion Market by segment, 2020 & 2030 (USD Billion)
- FIG 11. Global Marine Parallel Hybrid Propulsion Market by segment, 2020 & 2030 (USD Billion)
- FIG 12. Global Marine Parallel Hybrid Propulsion Market by segment, 2020 & 2030 (USD Billion)
- FIG 13. Global Marine Parallel Hybrid Propulsion Market by segment, 2020 & 2030 (USD Billion)
- FIG 14. Global Marine Parallel Hybrid Propulsion Market, regional snapshot 2020 & 2030
- FIG 15. North America Marine Parallel Hybrid Propulsion Market 2020 & 2030 (USD Billion)
- FIG 16. Europe Marine Parallel Hybrid Propulsion Market 2020 & 2030 (USD Billion)
- FIG 17. Asia pacific Marine Parallel Hybrid Propulsion Market 2020 & 2030 (USD Billion)
- FIG 18. Latin America Marine Parallel Hybrid Propulsion Market 2020 & 2030 (USD Billion)
- FIG 19. Middle East & Africa Marine Parallel Hybrid Propulsion Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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