

# **Zero-Emission Aircraft Market by Source (Hydrogen, Electric, and Solar), Range (Short-Haul, Medium-Haul, and Long-Haul), Application (Passenger Aircraft and Cargo Aircraft) and Type (Turboprop Rear Bulkhead, Turbofan System, and Blended Wing Body): Global Opportunity Analysis and Industry Forecast, 2030–2040**

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## **Abstracts**

Zero-emission aircraft make use of energy sources that doesn't release any harmful effluents into the environment. They are a viable option to power aircraft amidst rapidly declining reserves of fossil fuels, high operational costs of aircraft, and rising greenhouse effect across the world. Experts are continuously developing and testing zero-emission aircraft technologies using hydrogen, electricity, and solar cells. Companies, such as ZeroAvia, Inc., magniX, and others, have successfully tested their zero-emission aircraft in recent years.

There are some challenges associated with zero-emission aircraft in both battery-powered and hydrogen-based models. The major limitations related to electric aircraft are the heavyweight of batteries and the recharging time, for instance, at present, the chargers take hours to recharge the batteries. Hydrogen aircraft have their share of limitations too. Today, liquid hydrogen storage is one of the most viable possibilities, although storing hydrogen as compressed gas has issues in terms of aircraft weight and volume. However, all major aircraft manufacturers and numerous startups are working tirelessly to address the obstacles of zero-emission aircraft by researching, creating, and developing innovative technologies. Several manufacturers expect the commercial launch of full-scale aircraft by 2030-2040.

Increased air passenger traffic across the globe and reduced GHG emissions are expected to drive the zero-emission aircraft market during the forecast period. However, technological challenges associated with solar, electric, and hydrogen-powered aircraft and high costs associated with the production and handling of hydrogen are anticipated to hamper the growth of the market. Moreover, proactive government initiatives toward the development of zero-emission aircraft and advancements in zero-emission aircraft technologies are expected to offer lucrative opportunities in future.

The market segmentation is based on source, range, application, type, and region. By source, the market is divided into hydrogen, electric, and solar. Based on range, it is classified into short-haul, medium-haul, and long-haul. Based on application, it is bifurcated into passenger aircraft and cargo aircraft. Based on type, it is bifurcated into turboprop rear bulkhead, turbofan system, and blended wing body. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Competitive analysis and profiles of the major zero-emission aircraft market players include AeroDelft, Airbus S.A.S., Bye Aerospace, Eviation Aircraft, HES Energy Systems, Joby Aviation, Lilium, Pipistrel d.o.o, Wright Electric, and ZeroAvia, Inc.

## KEY BENEFITS FOR STAKEHOLDERS

This study presents analytical depiction of the global zero-emission aircraft market analysis along with current trends and future estimations to depict imminent investment pockets.

The overall zero-emission aircraft market opportunity is determined by understanding profitable trends to gain a stronger foothold.

The report presents information related to the key drivers, restraints, and opportunities of the global zero-emission aircraft market with a detailed impact analysis.

The current zero-emission aircraft market is quantitatively analyzed from 2030 to 2040 to benchmark the financial competency.

Porter's five forces analysis illustrates the potency of the buyers and suppliers

in the industry.

## KEY MARKET SEGMENTS

### By Source

Hydrogen

Electric

Solar

### By Range

Short-Haul

Medium-Haul

Long-Haul

### By Application

Passenger Aircraft

Cargo Aircraft

### By Type

Turboprop Rear Bulkhead

Turbofan System

Blended Wing Body

## By Region

### North America

U.S.

Canada

Mexico

### Europe

UK

Germany

France

Russia

Rest of Europe

### Asia-Pacific

China

Japan

South Korea

Rest of Asia Pacific

### LAMEA

Latin America

Middle East

Africa

## KEY PLAYERS

AeroDelft

Airbus S.A.S.

Bye Aerospace

Evation Aircraft

HES Energy Systems

Joby Aviation

Lilium

Pipistrel d.o.o

Wright Electric

ZeroAvia, Inc.

## Contents

### CHAPTER 1: INTRODUCTION

- 1.1. Report description
- 1.2. Key benefits for stakeholders
- 1.3. Key market segments
- 1.4. Research methodology
  - 1.4.1. Primary research
  - 1.4.2. Secondary research
  - 1.4.3. Analyst tools and models

### CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO perspective

### CHAPTER 3: MARKET OVERVIEW

- 3.1. Market definition and scope
- 3.2. Key findings
  - 3.2.1. Top impacting factors
  - 3.2.2. Top investment pockets
  - 3.2.3. Top winning strategies
- 3.3. Porter's five forces analysis
- 3.4. Key player positioning, 2020
- 3.5. Market dynamics
  - 3.5.1. Drivers
    - 3.5.1.1. Increase in air passenger traffic across the globe
    - 3.5.1.2. Reduced GHG emissions
  - 3.5.2. Restraint
    - 3.5.2.1. Technological challenges associated with the solar, electric, and hydrogen-powered aircraft
    - 3.5.2.2. High costs associated with the production and handling of hydrogen
  - 3.5.3. Opportunities
    - 3.5.3.1. Proactive government initiatives toward zero-emission powered aircrafts
    - 3.5.3.2. Advancements in zero-emission aircraft technologies

### CHAPTER 4: GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE

#### 4.1. Overview

#### 4.2. Hydrogen

4.2.1. Key market trends, growth factors, and opportunities

4.2.2. Market size and forecast, by region

4.2.3. Market analysis, by country

#### 4.3. Electric

4.3.1. Key market trends, growth factors, and opportunities

4.3.2. Market size and forecast, by region

4.3.3. Market analysis, by country

#### 4.4. Solar

4.4.1. Key market trends, growth factors, and opportunities

4.4.2. Market size and forecast, by region

4.4.3. Market analysis, by country

### **CHAPTER 5: GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION**

#### 5.1. Overview

#### 5.2. Passenger aircraft

5.2.1. Key market trends, growth factors, and opportunities

5.2.2. Market size and forecast, by region

5.2.3. Market analysis, by country

#### 5.3. Cargo aircraft

5.3.1. Key market trends, growth factors, and opportunities

5.3.2. Market size and forecast, by region

5.3.3. Market analysis, by country

### **CHAPTER 6: GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY RANGE**

#### 6.1. Overview

#### 6.2. Short-haul

6.2.1. Key market trends, growth factors, and opportunities

6.2.2. Market size and forecast, by region

6.2.3. Market analysis, by country

#### 6.3. Medium-haul

6.3.1. Key market trends, growth factors, and opportunities

6.3.2. Market size and forecast, by region

6.3.3. Market analysis, by country

#### 6.4. Long-haul

6.4.1. Key market trends, growth factors, and opportunities

6.4.2. Market size and forecast, by region

6.4.3. Market analysis, by country

## **CHAPTER 7: GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY TYPE**

7.1. Overview

7.2. Turboprop Rear Bulkhead rear bulkhead

7.2.1. Key market trends, growth factors, and opportunities

7.2.2. Market size and forecast, by region

7.2.3. Market analysis, by country

7.3. Turbofan system

7.3.1. Key market trends, growth factors, and opportunities

7.3.2. Market size and forecast, by region

7.3.3. Market analysis, by country

7.4. Blended wing body

7.4.1. Key market trends, growth factors, and opportunities

7.4.2. Market size and forecast, by region

7.4.3. Market analysis, by country

## **CHAPTER 8: ZERO-EMISSION AIRCRAFT MARKET, BY REGION**

8.1. Overview

8.2. North America

8.2.1. Key market trends, growth factors, and opportunities

8.2.2. Market size and forecast, by source

8.2.3. Market size and forecast, by application

8.2.4. Market size and forecast, by range

8.2.5. Market size and forecast, by type

8.2.6. Market analysis, by country

8.2.6.1. U.S.

8.2.6.1.1. Market size and forecast, by source

8.2.6.1.2. Market size and forecast, by application

8.2.6.1.3. Market size and forecast, by range

8.2.6.1.4. Market size and forecast, by type

8.2.6.2. Canada

8.2.6.2.1. Market size and forecast, by source

8.2.6.2.2. Market size and forecast, by application

8.2.6.2.3. Market size and forecast, by range

8.2.6.2.4. Market size and forecast, by type



#### 8.2.6.3. Mexico

8.2.6.3.1. Market size and forecast, by source

8.2.6.3.2. Market size and forecast, by application

8.2.6.3.3. Market size and forecast, by range

8.2.6.3.4. Market size and forecast, by type

### 8.3. Europe

8.3.1. Key market trends, growth factors, and opportunities

8.3.2. Market size and forecast, by source

8.3.3. Market size and forecast, by application

8.3.4. Market size and forecast, by range

8.3.5. Market size and forecast, by type

8.3.6. Market analysis, by country

#### 8.3.6.1. UK

8.3.6.1.1. Market size and forecast, by source

8.3.6.1.2. Market size and forecast, by application

8.3.6.1.3. Market size and forecast, by range

8.3.6.1.4. Market size and forecast, by type

#### 8.3.6.2. Germany

8.3.6.2.1. Market size and forecast, by source

8.3.6.2.2. Market size and forecast, by application

8.3.6.2.3. Market size and forecast, by range

8.3.6.2.4. Market size and forecast, by type

#### 8.3.6.3. France

8.3.6.3.1. Market size and forecast, by source

8.3.6.3.2. Market size and forecast, by application

8.3.6.3.3. Market size and forecast, by range

8.3.6.3.4. Market size and forecast, by type

#### 8.3.6.4. Russia

8.3.6.4.1. Market size and forecast, by source

8.3.6.4.2. Market size and forecast, by application

8.3.6.4.3. Market size and forecast, by range

8.3.6.4.4. Market size and forecast, by type

#### 8.3.6.5. Rest of Europe

8.3.6.5.1. Market size and forecast, by source

8.3.6.5.2. Market size and forecast, by application

8.3.6.5.3. Market size and forecast, by range

8.3.6.5.4. Market size and forecast, by type

### 8.4. Asia-Pacific

8.4.1. Key market trends, growth factors, and opportunities

8.4.2. Market size and forecast, by source

8.4.3. Market size and forecast, by application

8.4.4. Market size and forecast, by range

8.4.5. Market size and forecast, by type

8.4.7. Market analysis, by country

8.4.7.1. China

8.4.7.1.1. Market size and forecast, by source

8.4.7.1.2. Market size and forecast, by application

8.4.7.1.3. Market size and forecast, by range

8.4.7.1.4. Market size and forecast, by type

8.4.7.2. Japan

8.4.7.2.1. Market size and forecast, by source

8.4.7.2.2. Market size and forecast, by application

8.4.7.2.3. Market size and forecast, by range

8.4.7.2.4. Market size and forecast, by type

8.4.7.3. South Korea

8.4.7.3.1. Market size and forecast, by source

8.4.7.3.2. Market size and forecast, by application

8.4.7.3.3. Market size and forecast, by range

8.4.7.3.4. Market size and forecast, by type

8.4.7.4. Rest of Asia-Pacific

8.4.7.4.1. Market size and forecast, by source

8.4.7.4.2. Market size and forecast, by application

8.4.7.4.3. Market size and forecast, by range

8.4.7.4.4. Market size and forecast, by type

8.5. LAMEA

8.5.1. Key market trends, growth factors, and opportunities

8.5.2. Market size and forecast, by source

8.5.3. Market size and forecast, by application

8.5.4. Market size and forecast, by range

8.5.5. Market size and forecast, by type

8.5.7. Market analysis, by country

8.5.7.1. Latin America

8.5.7.1.1. Market size and forecast, by source

8.5.7.1.2. Market size and forecast, by application

8.5.7.1.3. Market size and forecast, by range

8.5.7.1.4. Market size and forecast, by type

8.5.7.2. Middle East

8.5.7.2.1. Market size and forecast, by source

- 8.5.7.2.2. Market size and forecast, by application
- 8.5.7.2.3. Market size and forecast, by range
- 8.5.7.2.4. Market size and forecast, by type
- 8.5.7.3. Africa
  - 8.5.7.3.1. Market size and forecast, by source
  - 8.5.7.3.2. Market size and forecast, by application
  - 8.5.7.3.3. Market size and forecast, by range
  - 8.5.7.3.4. Market size and forecast, by type

## **CHAPTER 9: COMPANY PROFILES**

### **9.1. AERODELFT**

- 9.1.1. Company overview
- 9.1.2. Company snapshot
- 9.1.3. Product portfolio
- 9.1.4. Key strategic moves and developments

### **9.2. Airbus S.A.S.**

- 9.2.1. Company overview
- 9.2.2. Company snapshot
- 9.2.3. Operating business segments
- 9.2.4. Product portfolio
- 9.2.5. Business performance
- 9.2.6. Key strategic moves and developments
- 9.2.7. SWOT Analysis: Airbus S.A.S.
  - 9.2.7.1. Strength
  - 9.2.7.2. Weakness
  - 9.2.7.3. Opportunity
  - 9.2.7.4. Threat

### **9.3. BYE AEROSPACE**

- 9.3.1. Company overview
- 9.3.2. Company snapshot
- 9.3.3. Product portfolio
- 9.3.4. Key strategic moves and developments

### **9.4. Eviation Aircraft**

- 9.4.1. Company overview
- 9.4.2. Company snapshot
- 9.4.3. Product portfolio
- 9.4.4. Key strategic moves and developments

### **9.5. HES Energy Systems**

- 9.5.1. Company overview
- 9.5.2. Company snapshot
- 9.5.3. Operating business segments
- 9.5.4. Product portfolio
- 9.5.5. Key strategic moves and developments
- 9.6. Joby Aviation
  - 9.6.1. Company overview
  - 9.6.2. Company snapshot
  - 9.6.3. Product portfolio
  - 9.6.4. Key strategic moves and developments
- 9.7. Lilium
  - 9.7.1. Company overview
  - 9.7.2. Company snapshot
  - 9.7.3. Product portfolio
  - 9.7.4. Key strategic moves and developments
- 9.8. PIPISTREL D.O.O.
  - 9.8.1. Company overview
  - 9.8.2. Company snapshot
  - 9.8.3. Operating business segments
  - 9.8.4. Product portfolio
  - 9.8.5. Key strategic moves and developments
- 9.9. Wright Electric
  - 9.9.1. Company overview
  - 9.9.2. Company snapshot
  - 9.9.3. Product portfolio
  - 9.9.4. Key strategic moves and developments
- 9.10. ZeroAvia, Inc.
  - 9.10.1. Company overview
  - 9.10.2. Company snapshot
  - 9.10.3. Operating business segments
  - 9.10.4. Product portfolio
  - 9.10.5. Key strategic moves and developments

## List Of Tables

### LIST OF TABLES

TABLE 01. GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030-2040 (\$MILLION)

TABLE 02. ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR HYDROGEN, BY REGION, 2030–2040 (\$MILLION)

TABLE 03. ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR ELECTRIC, BY REGION, 2030–2040 (\$MILLION)

TABLE 04. ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR SOLAR, BY REGION, 2030–2040 (\$MILLION)

TABLE 05. GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030-2040(\$MILLION)

TABLE 06. ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR PASSENGER AIRCRAFT, BY REGION, 2030–2040 (\$MILLION)

TABLE 07. ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR CARGO AIRCRAFT, BY REGION, 2030–2040 (\$MILLION)

TABLE 08. ZERO-EMISSION AIRCRAFT APPLICATION MARKET BY SOURCE AND RANGE, 2030-2040, (\$MILLION)

TABLE 09. GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030-2040(\$MILLION)

TABLE 10. ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR SHORT-HAUL, BY REGION, 2030–2040 (\$MILLION)

TABLE 11. ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR MEDIUM-HAUL, BY REGION, 2030–2040 (\$MILLION)

TABLE 12. ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR LONG-HAUL, BY REGION, 2030–2040 (\$MILLION)

TABLE 13. GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030-2040(\$MILLION)

TABLE 14. ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR TURBOPROP REAR BULKHEAD, BY REGION, 2030–2040 (\$MILLION)

TABLE 15. ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR TURBOFAN SYSTEM, BY REGION, 2030–2040 (\$MILLION)

TABLE 16. ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR BLENDED WING BODY, BY REGION, 2030–2040 (\$MILLION)

TABLE 17. NORTH AMERICA ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 18. NORTH AMERICA ZERO-EMISSION AIRCRAFT MARKET, BY

APPLICATION, 2030–2040 (\$MILLION)

TABLE 19. NORTH AMERICA ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 20. NORTH AMERICA ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 21. U.S. ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 22. U.S. ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 23. U.S. ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 24. U.S. ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 25. CANADA ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 26. CANADA ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 27. CANADA ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 28. CANADA ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 29. MEXICO ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 30. MEXICO ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 31. MEXICO ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 32. MEXICO ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 33. EUROPE ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 34. EUROPE ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 35. EUROPE ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 36. EUROPE ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 37. UK ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 38. UK ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 39. UK ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 40. UK ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 41. GERMANY ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 42. GERMANY ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 43. GERMANY ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 44. GERMANY ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 45. FRANCE ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 46. FRANCE ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 47. FRANCE ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 48. FRANCE ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 49. RUSSIA ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 50. RUSSIA ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 51. RUSSIA ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 52. RUSSIA ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 53. REST OF EUROPE ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 54. REST OF EUROPE ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 55. REST OF EUROPE ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 56. REST OF EUROPE ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 57. ASIA-PACIFIC ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE,



2030–2040 (\$MILLION)

TABLE 58. ASIA-PACIFIC ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 59. ASIA-PACIFIC ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 60. ASIA-PACIFIC ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 61. CHINA ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 62. CHINA ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 63. CHINA ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 64. CHINA ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 65. JAPAN ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 66. JAPAN ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 67. JAPAN ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 68. JAPAN ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 69. SOUTH KOREA ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 70. SOUTH KOREA ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 71. SOUTH KOREA ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 72. SOUTH KOREA ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 73. REST OF ASIA-PACIFIC ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 74. REST OF ASIA-PACIFIC ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 75. REST OF ASIA-PACIFIC ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 76. REST OF ASIA-PACIFIC ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)



TABLE 77. LAMEA ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 78. LAMEA ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 79. LAMEA ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 80. LAMEA ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 81. LATIN AMERICA ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 82. LATIN AMERICA ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 83. LATIN AMERICA ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 84. LATIN AMERICA ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 85. MIDDLE EAST ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 86. MIDDLE EAST ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 87. MIDDLE EAST ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 88. MIDDLE EAST ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 89. AFRICA ZERO-EMISSION AIRCRAFT MARKET, BY SOURCE, 2030–2040 (\$MILLION)

TABLE 90. AFRICA ZERO-EMISSION AIRCRAFT MARKET, BY APPLICATION, 2030–2040 (\$MILLION)

TABLE 91. AFRICA ZERO-EMISSION AIRCRAFT MARKET, BY RANGE, 2030–2040 (\$MILLION)

TABLE 92. AFRICA ZERO-EMISSION AIRCRAFT MARKET, BY TYPE, 2030–2040 (\$MILLION)

TABLE 93. AERODELFT: COMPANY SNAPSHOT

TABLE 94. AERODELFT: PRODUCT PORTFOLIO

TABLE 95. AERODELFT: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 96. AIRBUS S.A.S.: COMPANY SNAPSHOT

TABLE 97. AIRBUS S.A.S.: OPERATING SEGMENTS

TABLE 98. AIRBUS S.A.S.: PRODUCT PORTFOLIO

TABLE 99. AIRBUS S.A.S.: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 100. BYE AEROSPACE: COMPANY SNAPSHOT
TABLE 101. BYE AEROSPACE: PRODUCT PORTFOLIO
TABLE 102. BYE AEROSPACE: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 103. EVIATION AIRCRAFT: COMPANY SNAPSHOT
TABLE 104. AERODELFT: PRODUCT PORTFOLIO
TABLE 105. EVIATION AIRCRAFT: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 106. HES ENERGY SYSTEMS: COMPANY SNAPSHOT
TABLE 107. HES ENERGY SYSTEMS: OPERATING SEGMENTS
TABLE 108. HES ENERGY SYSTEMS: PRODUCT PORTFOLIO
TABLE 109. HES ENERGY SYSTEMS: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 110. JOBY AVIATION: COMPANY SNAPSHOT
TABLE 111. JOBY AVIATION: PRODUCT PORTFOLIO
TABLE 112. JOBY AVIATION: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 113. LILIUM: COMPANY SNAPSHOT
TABLE 114. LILIUM: PRODUCT PORTFOLIO
TABLE 115. LILIUM: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 116. PIPISTREL D.O.O.: COMPANY SNAPSHOT
TABLE 117. PIPISTREL D.O.O.: OPERATING SEGMENTS
TABLE 118. PIPISTREL D.O.O.: PRODUCT PORTFOLIO
TABLE 119. PIPISTREL D.O.O.: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 120. WRIGHT ELECTRIC: COMPANY SNAPSHOT
TABLE 121. WRIGHT ELECTRIC: PRODUCT PORTFOLIO
TABLE 122. WRIGHT ELECTRIC: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 123. ZEROAVIA, INC.: COMPANY SNAPSHOT
TABLE 124. ZEROAVIA, INC.: OPERATING SEGMENTS
TABLE 125. ZEROAVIA, INC.: PRODUCT PORTFOLIO
TABLE 126. ZEROAVIA, INC.: KEY STRATEGIC MOVES AND DEVELOPMENTS

## List Of Figures

### LIST OF FIGURES

- FIGURE 01. KEY MARKET SEGMENTS
- FIGURE 02. EXECUTIVE SUMMARY
- FIGURE 03. EXECUTIVE SUMMARY
- FIGURE 04. TOP IMPACTING FACTORS
- FIGURE 05. TOP INVESTMENT POCKETS
- FIGURE 06. TOP WINNING STRATEGIES, BY YEAR, 2018–2021\*
- FIGURE 07. TOP WINNING STRATEGIES, BY YEAR, 2018–2021\*
- FIGURE 08. TOP WINNING STRATEGIES, BY COMPANY, 2018–2021\*
- FIGURE 09. LOW-TO-HIGH BARGAINING POWER OF SUPPLIERS
- FIGURE 10. MODERATE-TO-HIGH THREAT OF NEW ENTRANTS
- FIGURE 11. LOW- TO-MODERATE THREAT OF SUBSTITUTES
- FIGURE 12. LOW-TO-HIGH INTENSITY OF RIVALRY
- FIGURE 13. LOW-TO-HIGH BARGAINING POWER OF BUYERS
- FIGURE 14. KEY PLAYER POSITIONING (2020)
- FIGURE 15. GLOBAL ZERO-EMISSION AIRCRAFT MARKET SHARE, BY SOURCE, 2030–2040 (%)
- FIGURE 16. COMPARATIVE SHARE ANALYSIS OF ZERO-EMISSION AIRCRAFT MARKET FOR HYDROGEN, BY COUNTRY, 2030 & 2040 (\$MILLION)
- FIGURE 17. COMPARATIVE SHARE ANALYSIS OF ZERO-EMISSION AIRCRAFT MARKET FOR ELECTRIC, BY COUNTRY, 2030 & 2040 (\$MILLIONS)
- FIGURE 18. COMPARATIVE SHARE ANALYSIS OF ZERO-EMISSION AIRCRAFT MARKET REVENUE FOR SOLAR BY COUNTRY, 2030 & 2040 (\$MILLION)
- FIGURE 19. GLOBAL ZERO-EMISSION AIRCRAFT MARKET SHARE, BY APPLICATION, 2030–2040 (%)
- FIGURE 20. COMPARATIVE SHARE ANALYSIS OF ZERO-EMISSION AIRCRAFT MARKET FOR PASSENGER AIRCRAFT, BY COUNTRY, 2030 & 2040 (\$MILLION)
- FIGURE 21. COMPARATIVE SHARE ANALYSIS OF ZERO-EMISSION AIRCRAFT MARKET FOR CARGO AIRCRAFT, BY COUNTRY, 2030 & 2040 (\$MILLION)
- FIGURE 22. GLOBAL ZERO-EMISSION AIRCRAFT MARKET SHARE, BY RANGE, 2030–2040 (%)
- FIGURE 23. COMPARATIVE SHARE ANALYSIS OF ZERO-EMISSION AIRCRAFT MARKET FOR SHORT-HAUL, BY COUNTRY, 2030 & 2040 (\$MILLION)
- FIGURE 24. COMPARATIVE SHARE ANALYSIS OF ZERO-EMISSION AIRCRAFT MARKET FOR MEDIUM-HAUL, BY COUNTRY, 2030 & 2040 (\$MILLION)
- FIGURE 25. COMPARATIVE SHARE ANALYSIS OF ZERO-EMISSION AIRCRAFT

MARKET FOR LONG-HAUL, BY COUNTRY, 2030 & 2040 (\$MILLION)

FIGURE 26. GLOBAL ZERO-EMISSION AIRCRAFT MARKET SHARE, BY TYPE, 2030–2040 (%)

FIGURE 27. COMPARATIVE SHARE ANALYSIS OF ZERO-EMISSION AIRCRAFT MARKET FOR TURBOPROP REAR BULKHEAD, BY COUNTRY, 2030 & 2040 (\$MILLION)

FIGURE 28. COMPARATIVE SHARE ANALYSIS OF ZERO-EMISSION AIRCRAFT MARKET FOR TURBOFAN SYSTEM, BY COUNTRY, 2030 & 2040 (\$MILLION)

FIGURE 29. COMPARATIVE SHARE ANALYSIS OF ZERO-EMISSION AIRCRAFT MARKET FOR BLENDED WING BODY, BY COUNTRY, 2030 & 2040 (\$MILLION)

FIGURE 30. GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY REGION, 2030-2040 (%)

FIGURE 31. COMPARATIVE SHARE ANALYSIS OF GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY COUNTRY, 2030–2040 (%)

FIGURE 32. U.S. ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 33. CANADA ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 34. MEXICO ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 35. COMPARATIVE SHARE ANALYSIS OF GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY COUNTRY, 2030–2040 (%)

FIGURE 36. UK ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 37. GERMANY ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 38. FRANCE ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 39. RUSSIA ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 40. REST OF EUROPE ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 41. COMPARATIVE SHARE ANALYSIS OF GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY COUNTRY, 2030–2040 (%)

FIGURE 42. CHINA ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 43. JAPAN ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 44. SOUTH KOREA ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 45. REST OF ASIA-PACIFIC ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 46. COMPARATIVE SHARE ANALYSIS OF GLOBAL ZERO-EMISSION AIRCRAFT MARKET, BY COUNTRY, 2030–2040 (%)

FIGURE 47. LATIN AMERICA ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 48. MIDDLE EAST ZERO-EMISSION AIRCRAFT MARKET, 2030–2040

(\$MILLION)

FIGURE 49. AFRICA ZERO-EMISSION AIRCRAFT MARKET, 2030–2040 (\$MILLION)

FIGURE 50. AIRBUS S.A.S.: REVENUE, 2018–2020 (\$MILLION)

FIGURE 51. AIRBUS S.A.S.: REVENUE SHARE BY SEGMENT, 2020 (%)

FIGURE 52. AIRBUS S.A.S.: REVENUE SHARE BY REGION, 2020 (%)

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