

Hybrid Aircraft Market by Aircraft Type (Regional Transport Aircraft, Business Jets, Light Aircraft, UAVs, AAM), Power Source (Fuel Hybrid, Hydrogen Hybrid), Lift Technology, Mode of Operation, Range, System and Region - Global Forecast to 2030

Market Report | 2023-08-22 | 248 pages | MarketsandMarkets

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Report description:

The hybrid aircraft market is projected to grow from USD 1.2 Billion in 2023 to USD 13.2 Billion by 2030, at a CAGR of 41.6% from 2023 to 2030. Various factors, such as the growing technological advancements in hybrid propulsion and need for sustainable development to drive the hybrid aircraft market. However, limited in weight and payload and regulatory approval obstacles involving hybrid aircraft are limiting the overall growth of the market.

"Fuel Hybrid: The largest share in power source segment in the hybrid aircraft market in 2023."

The fuel hybrid segment is projected to have the largest share in 2023. Fuel hybrid propulsion systems combine electric power and an internal combustion engine or a turbine. This configuration balances between electric efficiency and extended range capabilities. Batteries provide energy for propulsion during one or more phases of the flight. Fuel Hybrid propulsion systems with an electric motor and internal combustion engine help save fuel and reduce take-off noise and emission levels. Thus, the increasing use of fuel hybrid aircraft is driving the hybrid-electric aircraft market.

"Autonomous hybrid aircraft: The largest share in mode of operation segment in the hybrid aircraft market in 2023."

The autonomous hybrid aircraft from the mode of operation segment is projected to have the largest share in 2023. In the autonomous segment, hybrid aircraft such as eVTOLs, UAVs operate without direct human intervention, relying on advanced sensors, artificial intelligence, and sophisticated flight control systems to navigate and make decisions. Autonomous aircraft offer several notable advantages such as the potential to revolutionize the transportation industry by enabling on-demand and efficient aerial mobility without the need for human pilots. Autonomous systems growth is expected to leverage advanced algorithms to optimize flight paths, minimize congestion, and enhance safety through real-time situational awareness.

"VTOL: The second largest share in lift technology segment in the hybrid aircraft market in 2023."

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The VTOL segment is projected to have the second-largest share in 2023. VTOL Hybrid aircraft in hybrid-electric aircraft market has experienced remarkable growth. Urban congestion and the need for faster, more flexible transportation solutions have driven investment and research into VTOL technology, making it a promising avenue for the future of aviation and mobility. Few examples of VTOL aircraft are helicopters, multirotor aircraft, and tiltrotor/tilt-wing aircraft. The growth of this segment is due to ongoing efforts to enhance efficiency, reduce emissions, and promote sustainability in urban air transportation.

"The Asia-Pacific region is estimated to have the second largest share in the hybrid aircraft market in 2023."

Asia-Pacific is estimated to account for the second-largest share in hybrid-electric aircraft market in 2023. The Asia-Pacific region for this study comprises China, India, Japan, Australia, South Korea, and the Rest of Asia Pacific. The hybrid aircraft market in Asia Pacific has experienced a remarkable surge in recent years. The growth of the region is due to actively embracing developments in hybrid aircraft and hybrid UAM which is expected to revolutionize transportation within urban areas. Countries like Japan and the China are investing in the development of dedicated infrastructure and hybrid aircraft.

The break-up of the profiles of primary participants in the hybrid-electric aircraft market is as follows:

-□By Company Type: Tier 1 - 55%; Tier 2 - 25%; and Tier 3 - 20%

-□By Designation: C-Level Executives - 50%; Directors - 25%; and Others - 25%

-□By Region: North America - 32%, Europe - 32%, Asia Pacific - 16%, Latin America -10% Rest of the World - 10%.

Major Players in the hybrid-electric aircraft market are Textron Inc. (US), VoltAero (France), Electric Aviation Group (US), Ascendance Flight Technologies (France), XTI Aircraft (US) and Embraer (Brazil)among others.

Research Coverage

The market study covers the Hybrid Aircraft market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on Power Source (Fuel Hybrid, Hydrogen Hybrid), Mode of Operation (Autonomous, Piloted), By Range (< 100 km, 101 km to 500km, > 501 km), By System (Batteries & Fuel Cells, Electric Motors, Generators/Engines, Aerostructures, Avionics, Software, Others), By Aircraft Type (Regional Transport Aircraft, Business Jets, Light And Ultralight Aircraft, Advanced Air Mobility, Unmanned Aerial Vehicles), By Lift Technology (CTOL, STOL, VTOL) and Region. This study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their product and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

Key benefits of buying this report:

This report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall hybrid-electric aircraft market and its subsegments. The report covers the entire ecosystem of the hybrid-electric aircraft industry and will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

-□Market Penetration: Comprehensive information on hybrid aircraft market offered by the top players in the market.

-□Market Drivers: Increasing demand for green energy and noise free aircraft with alternate modes of transport, increasing demand for short haul range connectivity, technological convergence is driving factors for the hybrid-electric aircraft market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the hybrid aircraft market

-□Market Development: Comprehensive information about lucrative markets - the report analyses the hybrid aircraft market across

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varied regions.

-□Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the hybrid aircraft market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players in the hybrid aircraft market

Table of Contents:

1□INTRODUCTION□	31
1.1□STUDY OBJECTIVES□	31
1.2□MARKET DEFINITION□	32
1.3□STUDY SCOPE□	32
1.3.1□MARKETS COVERED□	32
FIGURE 1□HYBRID AIRCRAFT MARKET SEGMENTATION□	32
1.3.2□REGIONS COVERED□	33
1.3.3□YEARS CONSIDERED□	33
1.4□INCLUSIONS AND EXCLUSIONS□	34
TABLE 1□INCLUSIONS AND EXCLUSIONS□	34
1.5□CURRENCY CONSIDERED□	34
TABLE 2□USD EXCHANGE RATES□	35
1.6□LIMITATIONS□	35
1.7□STAKEHOLDERS□	35
2□RESEARCH METHODOLOGY□	36
2.1□RESEARCH DATA□	36
FIGURE 2□REPORT PROCESS FLOW□	36
FIGURE 3□RESEARCH DESIGN□	37
2.1.1□SECONDARY DATA□	37
2.1.1.1□Secondary sources□	38
2.1.2□PRIMARY DATA□	38
2.1.2.1□Primary sources□	38
2.1.2.2□Key data from primary sources□	39
FIGURE 4□BREAKDOWN OF PRIMARY INTERVIEWS□	39
2.2□FACTOR ANALYSIS□	40
2.2.1□INTRODUCTION□	40
2.2.2□DEMAND-SIDE INDICATORS□	40
2.2.3□SUPPLY-SIDE INDICATORS□	40
2.3□RECESSION IMPACT ANALYSIS□	41
2.4□RESEARCH APPROACH AND METHODOLOGY□	41
2.4.1□BOTTOM-UP APPROACH□	42
FIGURE 5□BOTTOM-UP APPROACH: MARKET SIZE CALCULATION□	42
FIGURE 6□BOTTOM-UP APPROACH□	42
2.4.2□TOP-DOWN APPROACH□	42
FIGURE 7□TOP-DOWN APPROACH□	42
2.5□DATA TRIANGULATION□	43
FIGURE 8□DATA TRIANGULATION□	43
2.5.1□TRIANGULATION THROUGH PRIMARY AND SECONDARY RESEARCH□	44

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2.6	GROWTH RATE FACTORS	44
2.7	RESEARCH ASSUMPTIONS	44
2.8	RISK ASSESSMENT	45
3	EXECUTIVE SUMMARY	46
FIGURE 9	PILOTED SEGMENT TO RECORD HIGHEST CAGR DURING FORECAST PERIOD	46
FIGURE 10	>501 KM TO BE FASTEST-GROWING SEGMENT DURING FORECAST PERIOD	47
FIGURE 11	HYDROGEN HYBRID SEGMENT TO REGISTER FASTEST GROWTH DURING FORECAST PERIOD	47
FIGURE 12	NORTH AMERICA TO BE LARGEST MARKET IN 2023	48
4	PREMIUM INSIGHTS	49
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN HYBRID AIRCRAFT MARKET	49
FIGURE 13	INCREASE IN DEMAND FOR GREEN AVIATION SOLUTIONS	49
4.2	HYBRID AIRCRAFT MARKET, BY SYSTEM	49
FIGURE 14	BATTERIES AND FUEL CELLS TO HOLD MAXIMUM MARKET SHARE IN 2023	49
4.3	HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY	50
FIGURE 15	CTOL TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD	50
4.4	HYBRID AIRCRAFT MARKET, BY COUNTRY	50
FIGURE 16	CANADA TO BE FASTEST-GROWING COUNTRY BETWEEN 2023 AND 2030	50
5	MARKET OVERVIEW	51
5.1	INTRODUCTION	51
5.2	MARKET DYNAMICS	51
FIGURE 17	HYBRID AIRCRAFT MARKET DYNAMICS	51
5.2.1	DRIVERS	52
5.2.1.1	Growing demand for green and noise-free aircraft	52
5.2.1.2	Need for alternate mode of transportation	52
FIGURE 18	RISE IN GLOBAL POPULATION, 1950-2050	52
5.2.1.3	Increasing preference for short-haul connectivity	53
5.2.1.4	Rising fuel prices	53
5.2.2	RESTRAINTS	53
5.2.2.1	Implications of increased aircraft weight	53
5.2.2.2	Lack of robust infrastructure	53
5.2.3	OPPORTUNITIES	54
5.2.3.1	Focus on sustainable development	54
5.2.3.2	Expansion of hybrid propulsion systems	54
5.2.4	CHALLENGES	54
5.2.4.1	Stringent regulatory processes	54
5.2.4.2	Challenges associated with supply chain integration	55
5.3	IMPACT OF RECESSION ON HYBRID AIRCRAFT MARKET	55
5.4	VALUE CHAIN ANALYSIS	56
FIGURE 19	VALUE CHAIN ANALYSIS	56
5.4.1	RAW MATERIALS	56
5.4.2	R&D	56
5.4.3	COMPONENT MANUFACTURING	57
5.4.4	OEMS	57
5.4.5	END USERS	57
5.5	ECOSYSTEM MAPPING	57
5.5.1	PROMINENT COMPANIES	57
5.5.2	PRIVATE AND SMALL ENTERPRISES	57

5.5.3	END USERS	57
FIGURE 20	ECOSYSTEM MAPPING	58
TABLE 3	ROLE OF KEY PLAYERS IN ECOSYSTEM	58
5.6	TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	60
FIGURE 21	TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	60
5.7	PORTER'S FIVE FORCES ANALYSIS	61
FIGURE 22	PORTER'S FIVE FORCES ANALYSIS	61
TABLE 4	PORTER'S FIVE FORCES ANALYSIS	61
5.7.1	THREAT OF NEW ENTRANTS	62
5.7.2	THREAT OF SUBSTITUTES	62
5.7.3	BARGAINING POWER OF SUPPLIERS	62
5.7.4	BARGAINING POWER OF BUYERS	62
5.7.5	INTENSITY OF COMPETITIVE RIVALRY	62
5.8	PRICING ANALYSIS	63
TABLE 5	AVERAGE PRICE TREND OF HYBRID AIRCRAFT, BY AIRCRAFT TYPE	63
5.9	VOLUME DATA	63
TABLE 6	VOLUME DATA, BY AIRCRAFT TYPE (UNITS)	63
5.10	TRADE ANALYSIS	64
TABLE 7	COUNTRY-WISE IMPORTS, 2020-2022 (USD THOUSAND)	64
TABLE 8	COUNTRY-WISE EXPORTS, 2020-2022 (USD THOUSAND)	65
5.11	TARIFF AND REGULATORY LANDSCAPE	66
TABLE 9	NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER AGENCIES	66
TABLE 10	EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER AGENCIES	67
TABLE 11	ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER AGENCIES	67
5.12	KEY CONFERENCES AND EVENTS, 2023-2024	68
TABLE 12	KEY CONFERENCES AND EVENTS, 2023-2024	68
5.13	USE CASE ANALYSIS	69
5.13.1	URBAN AIR MOBILITY	69
5.13.2	ENVIRONMENTAL SUSTAINABILITY	69
5.13.3	AIR CARGO AND LOGISTICS	69
5.14	KEY STAKEHOLDERS AND BUYING CRITERIA	70
5.14.1	KEY STAKEHOLDERS IN BUYING PROCESS	70
FIGURE 23	INFLUENCE OF STAKEHOLDERS ON BUYING HYBRID AIRCRAFT, BY MODE OF OPERATION	70
TABLE 13	INFLUENCE OF STAKEHOLDERS ON BUYING HYBRID AIRCRAFT, BY MODE OF OPERATION (%)	70
5.14.2	BUYING CRITERIA	71
FIGURE 24	KEY BUYING CRITERIA FOR HYBRID AIRCRAFT, BY MODE OF OPERATION	71
TABLE 14	KEY BUYING CRITERIA FOR HYBRID AIRCRAFT, BY MODE OF OPERATION	71
6	INDUSTRY TRENDS	72
6.1	INTRODUCTION	72
6.2	TECHNOLOGY TRENDS	72
6.2.1	ARTIFICIAL INTELLIGENCE	72
6.2.2	AUTOMATION	73
6.2.3	IMPLEMENTATION OF HYBRID POWER SOURCES FOR URBAN AIR MOBILITY	73
6.2.4	ADVANCED MANUFACTURING TECHNIQUES AND MATERIALS	73
6.2.5	ADVANCEMENTS IN BATTERY TECHNOLOGY	74
6.3	IMPACT OF MEGATRENDS	74
6.3.1	TECHNOLOGICAL ADVANCEMENTS	74

6.3.2	INTERNET OF THINGS	75
6.3.3	SUSTAINABLE AVIATION FUEL	75
6.4	INNOVATION AND PATENT ANALYSIS	76
TABLE 15	INNOVATION AND PATENT ANALYSIS	76
6.5	ROADMAP TO HYBRID AIRCRAFT COMMERCIALIZATION	88
FIGURE 25	DEVELOPMENT POTENTIAL OF HYBRID AIRCRAFT MARKET, 2020-2035	88
7	HYBRID AIRCRAFT MARKET, BY AIRCRAFT TYPE	89
7.1	INTRODUCTION	90
FIGURE 26	HYBRID AIRCRAFT MARKET, BY AIRCRAFT TYPE, 2023-2030	90
TABLE 16	HYBRID AIRCRAFT MARKET, BY AIRCRAFT TYPE, 2020-2022 (USD MILLION)	90
TABLE 17	HYBRID AIRCRAFT MARKET, BY AIRCRAFT TYPE, 2023-2030 (USD MILLION)	91
7.2	REGIONAL TRANSPORT AIRCRAFT	91
7.2.1	NEED FOR COST-EFFECTIVE SHORT-HAUL AIRLINERS TO DRIVE GROWTH	91
7.3	BUSINESS JETS	91
7.3.1	LOW OPERATING COST OF HYBRID ENGINES TO DRIVE GROWTH	91
7.4	LIGHT AND ULTRALIGHT AIRCRAFT	92
7.4.1	EXTENDED OPERATIONAL RANGE TO DRIVE GROWTH	92
7.5	UNMANNED AERIAL VEHICLES	92
7.5.1	IMPROVED PAYLOAD CAPACITY TO DRIVE GROWTH	92
7.6	ADVANCED AIR MOBILITY	92
7.6.1	FOCUS ON ECO-FRIENDLY TRANSPORTATION TO DRIVE GROWTH	92
8	HYBRID AIRCRAFT MARKET, BY POWER SOURCE	93
8.1	INTRODUCTION	94
FIGURE 27	HYBRID AIRCRAFT MARKET, BY POWER SOURCE, 2023-2030	94
TABLE 18	HYBRID AIRCRAFT MARKET, BY POWER SOURCE, 2020-2022 (USD MILLION)	94
TABLE 19	HYBRID AIRCRAFT MARKET, BY POWER SOURCE, 2023-2030 (USD MILLION)	94
8.2	FUEL HYBRID	95
8.2.1	INCREASING FUEL PRICES TO DRIVE GROWTH	95
8.3	HYDROGEN HYBRID	95
8.3.1	LOW MAINTENANCE CAPABILITIES TO DRIVE GROWTH	95
9	HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION	96
9.1	INTRODUCTION	97
FIGURE 28	HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030	97
TABLE 20	HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	97
TABLE 21	HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	97
9.2	PILOTED	98
9.2.1	ABILITY TO HANDLE COMPLEX SCENARIOS TO DRIVE GROWTH	98
9.3	AUTONOMOUS	98
9.3.1	NEED FOR LIMITED HUMAN INTERVENTION TO DRIVE GROWTH	98
10	HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY	99
10.1	INTRODUCTION	100
FIGURE 29	HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030	100
TABLE 22	HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	100
TABLE 23	HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	100
10.2	CTOL	101
10.2.1	RIGOROUS DEVELOPMENTS IN BUSINESS JETS TO DRIVE GROWTH	101

10.3	STOL	101
10.3.1	WIDESPREAD USE IN URBAN TRANSPORTATION TO DRIVE GROWTH	101
10.4	VTOL	101
10.4.1	FLEXIBLE TRANSPORTATION CAPABILITIES TO DRIVE GROWTH	101
11	HYBRID AIRCRAFT MARKET, BY RANGE	102
11.1	INTRODUCTION	103
FIGURE 30	HYBRID AIRCRAFT MARKET, BY RANGE, 2023-2030	103
TABLE 24	HYBRID AIRCRAFT MARKET, BY RANGE, 2020-2022 (USD MILLION)	103
TABLE 25	HYBRID AIRCRAFT MARKET, BY RANGE, 2023-2030 (USD MILLION)	103
11.2	<100 KM	104
11.2.1	ABILITY TO FIT IN SMALL SPACES TO DRIVE GROWTH	104
11.3	101-500 KM	104
11.3.1	RISE IN INTERCITY TRAVEL TO DRIVE GROWTH	104
11.4	>501 KM	104
11.4.1	INCREASED PREFERENCE FOR LONG-HAUL FLIGHTS TO DRIVE GROWTH	104
12	HYBRID AIRCRAFT MARKET, BY SYSTEM	105
12.1	INTRODUCTION	106
FIGURE 31	HYBRID AIRCRAFT MARKET, BY SYSTEM, 2023-2030	106
TABLE 26	HYBRID AIRCRAFT MARKET, BY SYSTEM, 2020-2022 (USD MILLION)	106
TABLE 27	HYBRID AIRCRAFT MARKET, BY SYSTEM, 2023-2030 (USD MILLION)	107
12.2	BATTERIES AND FUEL CELLS	107
12.2.1	ADVANCEMENTS IN BATTERY POWER DENSITY AND HYDROGEN FUEL CELLS TO DRIVE GROWTH	107
12.3	ELECTRIC MOTORS	107
12.3.1	IMPROVED POWER-TO-WEIGHT RATIO TO DRIVE GROWTH	107
12.4	GENERATORS/ENGINES	108
12.4.1	DEMAND FOR SUSTAINABLE AVIATION SOLUTIONS TO DRIVE GROWTH	108
12.5	AEROSTRUCTURES	108
12.5.1	ENHANCED PERFORMANCE AND SAFETY TO DRIVE GROWTH	108
12.6	AVIONICS	108
12.6.1	ABILITY TO MAINTAIN STABLE FLIGHT DYNAMICS TO DRIVE GROWTH	108
12.7	SOFTWARE	109
12.7.1	NEED FOR REAL-TIME FLEET HEALTH MONITORING TO DRIVE GROWTH	109
12.8	OTHERS	109
13	HYBRID AIRCRAFT MARKET, BY REGION	110
13.1	INTRODUCTION	111
FIGURE 32	HYBRID AIRCRAFT MARKET, BY REGION, 2023-2030	111
TABLE 28	HYBRID AIRCRAFT MARKET, BY REGION, 2020-2022 (USD MILLION)	111
TABLE 29	HYBRID AIRCRAFT MARKET, BY REGION, 2023-2030 (USD MILLION)	112
13.2	REGIONAL RECESSION IMPACT ANALYSIS	112
TABLE 30	REGIONAL RECESSION IMPACT ANALYSIS	112
13.3	NORTH AMERICA	113
13.3.1	RECESSION IMPACT ANALYSIS	113
13.3.2	PESTLE ANALYSIS	113
FIGURE 33	NORTH AMERICA: HYBRID AIRCRAFT MARKET SNAPSHOT	115
TABLE 31	NORTH AMERICA: HYBRID AIRCRAFT MARKET, BY COUNTRY, 2020-2022 (USD MILLION)	115
TABLE 32	NORTH AMERICA: HYBRID AIRCRAFT MARKET, BY COUNTRY, 2023-2030 (USD MILLION)	116
TABLE 33	NORTH AMERICA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	116

TABLE 34	NORTH AMERICA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	116
TABLE 35	NORTH AMERICA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	116
TABLE 36	NORTH AMERICA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	117
13.3.3	US	117
13.3.3.1	Presence of domestic market leaders to drive growth	117
TABLE 37	US: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	117
TABLE 38	US: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	117
TABLE 39	US: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	118
TABLE 40	US: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	118
13.3.4	CANADA	118
13.3.4.1	Availability of low-cost raw materials to drive growth	118
TABLE 41	CANADA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	118
TABLE 42	CANADA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	119
TABLE 43	CANADA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	119
TABLE 44	CANADA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	119
13.4	EUROPE	120
13.4.1	RECESSION IMPACT ANALYSIS	120
13.4.2	PESTLE ANALYSIS	120
FIGURE 34	EUROPE: HYBRID AIRCRAFT MARKET SNAPSHOT	122
TABLE 45	EUROPE: HYBRID AIRCRAFT MARKET, BY COUNTRY, 2020-2022 (USD MILLION)	122
TABLE 46	EUROPE: HYBRID AIRCRAFT MARKET, BY COUNTRY, 2023-2030 (USD MILLION)	123
TABLE 47	EUROPE: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	123
TABLE 48	EUROPE: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	123
TABLE 49	EUROPE: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	123
TABLE 50	EUROPE: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	124
13.4.3	UK	124
13.4.3.1	Technological advancements to drive growth	124
TABLE 51	UK: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	124
TABLE 52	UK: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	124
TABLE 53	UK: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	125
TABLE 54	UK: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	125
13.4.4	FRANCE	125
13.4.4.1	Short-distance air travel to drive growth	125
TABLE 55	FRANCE: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	125
TABLE 56	FRANCE: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	126
TABLE 57	FRANCE: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	126
TABLE 58	FRANCE: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	126
13.4.5	GERMANY	126
13.4.5.1	Increasing investments in R&D to drive growth	126
TABLE 59	GERMANY: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	127
TABLE 60	GERMANY: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	127
TABLE 61	GERMANY: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	127
TABLE 62	GERMANY: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	127
13.4.6	ITALY	128
13.4.6.1	High demand for hybrid aircraft from commercial end users to drive growth	128
TABLE 63	ITALY: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	128
TABLE 64	ITALY: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	128

TABLE 65	ITALY: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	128
TABLE 66	ITALY: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	129
13.4.7	RUSSIA	129
13.4.7.1	Rising awareness toward environmental sustainability to drive growth	129
TABLE 67	RUSSIA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	129
TABLE 68	RUSSIA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	129
TABLE 69	RUSSIA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	130
TABLE 70	RUSSIA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	130
13.4.8	REST OF EUROPE	130
TABLE 71	REST OF EUROPE: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	130
TABLE 72	REST OF EUROPE: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	131
TABLE 73	REST OF EUROPE: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	131
TABLE 74	REST OF EUROPE: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	131
13.5	ASIA PACIFIC	132
13.5.1	RECESSION IMPACT ANALYSIS	132
13.5.2	PESTLE ANALYSIS	132
FIGURE 35	ASIA PACIFIC: HYBRID AIRCRAFT MARKET SNAPSHOT	134
TABLE 75	ASIA PACIFIC: HYBRID AIRCRAFT MARKET, BY COUNTRY, 2020-2022 (USD MILLION)	134
TABLE 76	ASIA PACIFIC: HYBRID AIRCRAFT MARKET, BY COUNTRY, 2023-2030 (USD MILLION)	135
TABLE 77	ASIA PACIFIC: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	135
TABLE 78	ASIA PACIFIC: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	135
TABLE 79	ASIA PACIFIC: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	136
TABLE 80	ASIA PACIFIC: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	136
13.5.3	CHINA	136
13.5.3.1	Strategic planning for hybrid aircraft development to drive growth	136
TABLE 81	CHINA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	137
TABLE 82	CHINA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	137
TABLE 83	CHINA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	137
TABLE 84	CHINA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	137
13.5.4	INDIA	138
13.5.4.1	Dense population and urban congestion to drive growth	138
TABLE 85	INDIA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	138
TABLE 86	INDIA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	138
TABLE 87	INDIA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	138
TABLE 88	INDIA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	139
13.5.5	JAPAN	139
13.5.5.1	Diversification of commercial operations to drive growth	139
TABLE 89	JAPAN: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	139
TABLE 90	JAPAN: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	139
TABLE 91	JAPAN: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	140
TABLE 92	JAPAN: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	140
13.5.6	AUSTRALIA	140
13.5.6.1	Well-defined hybrid aircraft laws to drive growth	140
TABLE 93	AUSTRALIA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	140
TABLE 94	AUSTRALIA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	141
TABLE 95	AUSTRALIA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	141
TABLE 96	AUSTRALIA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	141

13.5.7 SOUTH KOREA 141

13.5.7.1 Favorable government initiatives to drive growth 141

TABLE 97 SOUTH KOREA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION) 142

TABLE 98 SOUTH KOREA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION) 142

TABLE 99 SOUTH KOREA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION) 142

TABLE 100 SOUTH KOREA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION) 142

13.5.8 REST OF ASIA PACIFIC 143

TABLE 101 REST OF ASIA PACIFIC: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION) 143

TABLE 102 REST OF ASIA PACIFIC: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION) 143

TABLE 103 REST OF ASIA PACIFIC: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION) 143

TABLE 104 REST OF ASIA PACIFIC: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION) 144

13.6 LATIN AMERICA 144

13.6.1 RECESSION IMPACT ANALYSIS 144

13.6.2 PESTLE ANALYSIS 144

FIGURE 36 LATIN AMERICA: HYBRID AIRCRAFT MARKET SNAPSHOT 146

TABLE 105 LATIN AMERICA: HYBRID AIRCRAFT MARKET, BY COUNTRY, 2020-2022 (USD MILLION) 146

TABLE 106 LATIN AMERICA: HYBRID AIRCRAFT MARKET, BY COUNTRY, 2023-2030 (USD MILLION) 147

TABLE 107 LATIN AMERICA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION) 147

TABLE 108 LATIN AMERICA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION) 147

TABLE 109 LATIN AMERICA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION) 147

TABLE 110 LATIN AMERICA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION) 148

13.6.3 BRAZIL 148

13.6.3.1 Intercity and intracity air taxi services by Airbus to drive growth 148

TABLE 111 BRAZIL: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION) 148

TABLE 112 BRAZIL: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION) 148

TABLE 113 BRAZIL: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION) 149

TABLE 114 BRAZIL: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION) 149

13.6.4 MEXICO 149

13.6.4.1 Surge in VVIP travel to drive growth 149

TABLE 115 MEXICO: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION) 149

TABLE 116 MEXICO: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION) 150

TABLE 117 MEXICO: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION) 150

TABLE 118 MEXICO: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION) 150

13.6.5 REST OF LATIN AMERICA 151

TABLE 119 REST OF LATIN AMERICA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION) 151

TABLE 120 REST OF LATIN AMERICA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION) 151

TABLE 121 REST OF LATIN AMERICA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION) 151

TABLE 122 REST OF LATIN AMERICA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION) 152

13.7 REST OF THE WORLD 152

13.7.1 RECESSION IMPACT ANALYSIS 152

TABLE 123 REST OF THE WORLD: HYBRID AIRCRAFT MARKET, BY REGION, 2020-2022 (USD MILLION) 153

TABLE 124 REST OF THE WORLD: HYBRID AIRCRAFT MARKET, BY REGION, 2023-2030 (USD MILLION) 153

TABLE 125 REST OF THE WORLD: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION) 153

TABLE 126 REST OF THE WORLD: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION) 153

TABLE 127 REST OF THE WORLD: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION) 154

TABLE 128 REST OF THE WORLD: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION) 154

13.7.2 MIDDLE EAST 154

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13.7.2.1	Domestic airport expansion to drive growth	154
TABLE 129	MIDDLE EAST: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	154
TABLE 130	MIDDLE EAST: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	155
TABLE 131	MIDDLE EAST: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	155
TABLE 132	MIDDLE EAST: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	155
13.7.3	AFRICA	155
13.7.3.1	Widespread use of hybrid aircraft for emergency medical services to drive growth	155
TABLE 133	AFRICA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2020-2022 (USD MILLION)	156
TABLE 134	AFRICA: HYBRID AIRCRAFT MARKET, BY MODE OF OPERATION, 2023-2030 (USD MILLION)	156
TABLE 135	AFRICA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2020-2022 (USD MILLION)	156
TABLE 136	AFRICA: HYBRID AIRCRAFT MARKET, BY LIFT TECHNOLOGY, 2023-2030 (USD MILLION)	157
14	COMPETITIVE LANDSCAPE	158
14.1	INTRODUCTION	158
TABLE 137	STRATEGIES ADOPTED BY KEY PLAYERS IN HYBRID AIRCRAFT MARKET, 2022-2023	158
14.2	RANKING ANALYSIS, 2022	160
FIGURE 37	MARKET RANKING OF KEY PLAYERS, 2022	160
14.3	REVENUE ANALYSIS, 2022	160
FIGURE 38	REVENUE ANALYSIS OF KEY PLAYERS, 2022	160
14.4	MARKET SHARE ANALYSIS, 2022	161
FIGURE 39	MARKET SHARE OF KEY PLAYERS, 2022	161
TABLE 138	HYBRID AIRCRAFT MARKET: DEGREE OF COMPETITION	161
14.5	COMPANY EVALUATION MATRIX	164
14.5.1	STARS	164
14.5.2	EMERGING LEADERS	164
14.5.3	PERVASIVE PLAYERS	164
14.5.4	PARTICIPANTS	164
FIGURE 40	COMPANY EVALUATION MATRIX, 2022	165
14.6	COMPANY FOOTPRINT	166
TABLE 139	COMPANY FOOTPRINT	166
TABLE 140	SEGMENT FOOTPRINT	167
14.7	START-UP/SME EVALUATION MATRIX	168
14.7.1	PROGRESSIVE COMPANIES	168
14.7.2	RESPONSIVE COMPANIES	168
14.7.3	DYNAMIC COMPANIES	168
14.7.4	STARTING BLOCKS	168
FIGURE 41	START-UP/SME EVALUATION MATRIX, 2022	169
TABLE 141	HYBRID AIRCRAFT MARKET: KEY START-UPS/SMES	170
14.7.5	COMPETITIVE BENCHMARKING	171
TABLE 142	COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES	171
14.8	COMPETITIVE SCENARIOS AND TRENDS	172
14.8.1	PRODUCT LAUNCHES	172
TABLE 143	PRODUCT LAUNCHES, 2020-2023	172
14.8.2	DEALS	173
TABLE 144	DEALS, 2020-2023	173
15	COMPANY PROFILES	184
(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) *		

15.1	KEY PLAYERS	184
15.1.1	AIRBUS	184
TABLE 145	AIRBUS: COMPANY OVERVIEW	184
FIGURE 42	AIRBUS: COMPANY SNAPSHOT	185
TABLE 146	AIRBUS: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	185
TABLE 147	AIRBUS: PRODUCT LAUNCHES	186
TABLE 148	AIRBUS: DEALS	186
15.1.2	TEXTRON INC.	188
TABLE 149	TEXTRON INC.: COMPANY OVERVIEW	188
FIGURE 43	TEXTRON INC.: COMPANY SNAPSHOT	189
TABLE 150	TEXTRON INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	189
TABLE 151	TEXTRON INC.: DEALS	190
15.1.3	EMBRAER	191
TABLE 152	EMBRAER: COMPANY OVERVIEW	191
FIGURE 44	EMBRAER: COMPANY SNAPSHOT	192
TABLE 153	EMBRAER: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	192
TABLE 154	EMBRAER: DEALS	193
15.1.4	ZEROAVIA	195
TABLE 155	ZEROAVIA: COMPANY OVERVIEW	195
TABLE 156	ZEROAVIA: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	195
TABLE 157	ZEROAVIA: DEALS	196
15.1.5	AMPAIRE, INC.	200
TABLE 158	AMPAIRE, INC.: COMPANY OVERVIEW	200
TABLE 159	AMPAIRE, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	200
TABLE 160	AMPAIRE, INC.: DEALS	201
15.1.6	FARADAIER AEROSPACE	204
TABLE 161	FARADAIER AEROSPACE: COMPANY OVERVIEW	204
TABLE 162	FARADAIER AEROSPACE: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	204
TABLE 163	FARADAIER AEROSPACE: DEALS	205
15.1.7	HEART AEROSPACE	206
TABLE 164	HEART AEROSPACE: COMPANY OVERVIEW	206
TABLE 165	HEART AEROSPACE: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	206
TABLE 166	HEART AEROSPACE: DEALS	207
15.1.8	HORIZON AIRCRAFT, INC.	208
TABLE 167	HORIZON AIRCRAFT, INC.: COMPANY OVERVIEW	208
TABLE 168	HORIZON AIRCRAFT, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	208
TABLE 169	HORIZON AIRCRAFT, INC.: DEALS	209
15.1.9	BOMBARDIER, INC.	210
TABLE 170	BOMBARDIER, INC.: COMPANY OVERVIEW	210
FIGURE 45	BOMBARDIER, INC.: COMPANY SNAPSHOT	211
TABLE 171	BOMBARDIER, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	211
15.1.10	SAFRAN	212
TABLE 172	SAFRAN: COMPANY OVERVIEW	212
FIGURE 46	SAFRAN: COMPANY SNAPSHOT	213
TABLE 173	SAFRAN: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	213
TABLE 174	SAFRAN: DEALS	214
15.1.11	RAYTHEON TECHNOLOGIES CORPORATION	215

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TABLE 175	RAYTHEON TECHNOLOGIES CORPORATION: COMPANY OVERVIEW	215
FIGURE 47	RAYTHEON TECHNOLOGIES CORPORATION: COMPANY SNAPSHOT	216
TABLE 176	RAYTHEON TECHNOLOGIES CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	216
TABLE 177	RAYTHEON TECHNOLOGIES CORPORATION: PRODUCT LAUNCHES	217
15.1.12	HONEYWELL	218
TABLE 178	HONEYWELL: COMPANY OVERVIEW	218
FIGURE 48	HONEYWELL: COMPANY SNAPSHOT	219
TABLE 179	HONEYWELL: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	219
TABLE 180	HONEYWELL: PRODUCT LAUNCHES	220
TABLE 181	HONEYWELL: DEALS	220
15.1.13	GENERAL ELECTRIC	221
TABLE 182	GENERAL ELECTRIC: COMPANY OVERVIEW	221
FIGURE 49	GENERAL ELECTRIC: COMPANY SNAPSHOT	222
TABLE 183	GENERAL ELECTRIC: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	222
TABLE 184	GENERAL ELECTRIC: PRODUCT LAUNCHES	223
TABLE 185	GENERAL ELECTRIC: DEALS	223
15.1.14	ROLLS ROYCE	224
TABLE 186	ROLLS ROYCE: COMPANY OVERVIEW	224
FIGURE 50	ROLLS ROYCE: COMPANY SNAPSHOT	225
TABLE 187	ROLLS ROYCE: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	225
TABLE 188	ROLLS ROYCE: PRODUCT LAUNCHES	226
15.1.15	GKN AEROSPACE	227
TABLE 189	GKN AEROSPACE: COMPANY OVERVIEW	227
TABLE 190	GKN AEROSPACE: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	227
15.1.16	VOLTAERO	228
TABLE 191	VOLTAERO: COMPANY OVERVIEW	228
TABLE 192	VOLTAERO: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	228
TABLE 193	VOLTAERO: PRODUCT LAUNCHES	229
TABLE 194	VOLTAERO: DEALS	229
15.1.17	ELECTRIC AVIATION GROUP	231
TABLE 195	ELECTRIC AVIATION GROUP: COMPANY OVERVIEW	231
TABLE 196	ELECTRIC AVIATION GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	231
TABLE 197	ELECTRIC AVIATION GROUP: DEALS	231
15.1.18	PLANA	233
TABLE 198	PLANA: COMPANY OVERVIEW	233
TABLE 199	PLANA: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	233
TABLE 200	PLANA: DEALS	234
15.1.19	ASCENDANCE FLIGHT TECHNOLOGIES	236
TABLE 201	ASCENDANCE FLIGHT TECHNOLOGIES: COMPANY OVERVIEW	236
TABLE 202	ASCENDANCE FLIGHT TECHNOLOGIES: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	236
TABLE 203	ASCENDANCE FLIGHT TECHNOLOGIES: DEALS	237
15.1.20	XTI AIRCRAFT	238
TABLE 204	XTI AIRCRAFT: COMPANY OVERVIEW	238
TABLE 205	XTI AIRCRAFT: PRODUCTS/SOLUTIONS/SERVICES OFFERED?	238
TABLE 206	XTI AIRCRAFT: DEALS	238
15.2	OTHER PLAYERS	240
15.2.1	ELECTRA.AERO, INC.	240

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15.2.2	MANTA AIRCRAFT	241
15.2.3	AMSL AERO PTY. LTD.	241
15.2.4	TRANSCEND AIR CORPORATION	242
15.2.5	AVA PROPULSION, INC.	242
15.2.6	SKYFLY TECHNOLOGIES LTD.	243
15.2.7	H2FLY	244
15.2.8	COSTRUZIONI AERONAUTICHE TECNAM S.P.A.	245
15.2.9	ELROY AIR	246
15.2.10	AIRSPACE EXPERIENCE TECHNOLOGIES, INC.	247

*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

16	APPENDIX	248
16.1	DISCUSSION GUIDE	248
16.2	KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL	252
16.3	CUSTOMIZATION OPTIONS	254
16.4	RELATED REPORTS	254
16.5	AUTHOR DETAILS	255

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