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Global Turbo-electric Hybrid Propulsion System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Turbo-electric Hybrid Propulsion System market size was valued at US$ 1426 million in 2025 and is forecast to a readjusted size of US$ 5816 million by 2032 with a CAGR of 22.2% during review period.

In 2025, global Turbo-electric Hybrid Propulsion System production reached approximately 460 units, with an average global market price of around US$3 million per unit.

A Turbo-electric Hybrid Propulsion System is an aircraft propulsion architecture that combines a conventional gas-turbine engine with electric propulsion technologies. The system typically includes a gas turbine engine, generator, power electronics, electric motors, and energy management systems. The turbine drives a generator to produce electricity, which powers electric motors that drive propellers or fans. This architecture enables distributed electric propulsion, improves energy efficiency, and reduces fuel consumption, noise, and emissions, making it a key technology pathway for future electric aviation and advanced air mobility.

The upstream segment of the turbo-electric hybrid propulsion system industry mainly consists of suppliers of aerospace-grade materials and key components, including gas turbine engines, electric motors, batteries, power electronics, and composite structures. Representative companies include GE Aerospace, Rolls?Royce, Honeywell Aerospace, and MagniX. The midstream includes propulsion system integrators and hybrid-electric powertrain developers responsible for system architecture design, energy management, and propulsion integration. Downstream applications include electric aircraft, eVTOL

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aircraft, regional commuter aircraft, and unmanned aerial vehicles manufactured by companies such as Airbus, Boeing, VoltAero, and Pipistrel. The development of advanced air mobility and electrified aviation is accelerating the adoption of hybrid electric propulsion technologies.

This report is a detailed and comprehensive analysis for global Turbo-electric Hybrid Propulsion System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Turbo-electric Hybrid Propulsion System market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Turbo-electric Hybrid Propulsion System market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Turbo-electric Hybrid Propulsion System market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Turbo-electric Hybrid Propulsion System market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Turbo-electric Hybrid Propulsion System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Turbo-electric Hybrid Propulsion System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include GE Aerospace, Rolls?Royce, Honeywell Aerospace, Safran, MagniX, Ampaire, VoltAero, RTX Corporation, Electra.aero, Flightwin, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Turbo-electric Hybrid Propulsion System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Series

Parallel

Series-Parallel Hybrid

Market segment by Power

50 kW ? 300 kW

300 kW ? 1 MW

1 MW ? 5 MW

5 MW ? 20 MW

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Others

Market segment by Application

Airplane

Drone

Others

Major players covered

GE Aerospace

Rolls?Royce

Honeywell Aerospace

Safran

MagniX

Ampaire

VoltAero

RTX Corporation

Electra.aero

Flightwin

Eptaerospace

AECC

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Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Turbo-electric Hybrid Propulsion System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Turbo-electric Hybrid Propulsion System, with price, sales quantity, revenue, and global market share of Turbo-electric Hybrid Propulsion System from 2021 to 2026.

Chapter 3, the Turbo-electric Hybrid Propulsion System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Turbo-electric Hybrid Propulsion System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Turbo-electric Hybrid Propulsion System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Turbo-electric Hybrid Propulsion System.

Chapter 14 and 15, to describe Turbo-electric Hybrid Propulsion System sales channel, distributors, customers, research findings and conclusion.

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