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Global Turbo-electric Hybrid Propulsion System Market Growth 2026-2032

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Abstracts

The global Turbo-electric Hybrid Propulsion System market size is predicted to grow from US$ 1355 million in 2025 to US$ 5915 million in 2032; it is expected to grow at a CAGR of 23.5% from 2026 to 2032.

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 aircraft, regional commuter aircraft, and unmanned aerial vehicles manufactured by companies such as Airbus, Boeing, VoltAero, and Pipistrel. The development of

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advanced air mobility and electrified aviation is accelerating the adoption of hybrid electric propulsion technologies.

United States market for Turbo-electric Hybrid Propulsion System is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Turbo-electric Hybrid Propulsion System is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Turbo-electric Hybrid Propulsion System is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Turbo-electric Hybrid Propulsion System players cover GE Aerospace, Rolls?Royce, Honeywell Aerospace, Safran, MagniX, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?Turbo-electric Hybrid Propulsion System Industry Forecast? looks at past sales and reviews total world Turbo-electric Hybrid Propulsion System sales in 2025, providing a comprehensive analysis by region and market sector of projected Turbo-electric Hybrid Propulsion System sales for 2026 through 2032. With Turbo-electric Hybrid Propulsion System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Turbo-electric Hybrid Propulsion System industry.

This Insight Report provides a comprehensive analysis of the global Turbo-electric Hybrid Propulsion System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Turbo-electric Hybrid Propulsion System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Turbo-electric Hybrid Propulsion System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Turbo-electric Hybrid Propulsion System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of

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bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Turbo-electric Hybrid Propulsion System.

This report presents a comprehensive overview, market shares, and growth opportunities of Turbo-electric Hybrid Propulsion System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Series

Parallel

Series-Parallel Hybrid

Segmentation by Power:

50 kW ? 300 kW

300 kW ? 1 MW

1 MW ? 5 MW

5 MW ? 20 MW

Others

Segmentation by Application:

Airplane

Drone

Others

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This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa

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Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

GE Aerospace

Rolls?Royce

Honeywell Aerospace

Safran

MagniX

Ampaire

VoltAero

RTX Corporation

Electra.aero

Flightwin

Eptaerospace

AECC

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Turbo-electric Hybrid Propulsion System market?

What factors are driving Turbo-electric Hybrid Propulsion System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Turbo-electric Hybrid Propulsion System market opportunities vary by end market size?

How does Turbo-electric Hybrid Propulsion System break out by Type, by Application?

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