

# Fuel Efficiency Technologies in the Commercial Aviation Market 2012-2022

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## Abstracts

The development of fuel efficient technologies to reduce fuel burn and lower carbon emissions is viewed as a necessity to the future of air travel. Volatile fuel prices have placed the very solvency of many airlines in question. Airlines must reduce their consumption of oil-based jet fuel by investing in more fuel-efficient technologies, nurturing the growth of alternative energies, and, more immediately, optimising their business models. Visiongain calculates the global fuel efficient technologies in the commercial aviation market, defined as spending on new aircraft engines, biofuels, advanced composites for airframe design and air traffic management systems, to be \$48.30bn in 2012.

Historic trends in improving efficiency levels show that aircraft entering today's fleet are around 80% more fuel efficient than they were 40 years ago due to the introduction of new engines, coupled with year-on-year 'incremental' improvements to engine design and operation.

Though the industry will be faced with the restraints of proving the effectiveness of some of the new technologies on a commercial scale, overcoming fierce competition, and confronting a weak global economy, fuel efficiency technologies in the commercial aviation market are likely to provide substantial opportunities for potential investors. This report offers an examination of fuel efficiency technologies in the commercial aviation market over the next decade, providing detailed market forecasts for each of the leading regional markets and offering analysis of the opportunities available in the fuel efficiency technologies market throughout the world.

The report also describes the most important fuel efficiency technology submarkets within the global commercial aviation industry and assesses their importance for the

growth of the market over the long-term.

How much is going to be spent in the leading regional commercial aviation markets for new and upgraded fuel efficiency technologies between 2012 and 2022? Who are the leading companies in aircraft engine and the aerospace industry? Where are the growth opportunities over the next decade - in which countries and with which type of technology? These critical questions and many more are definitively answered in this comprehensive report.

### **Unique Selling Points**

Global forecast for fuel efficiency technologies in the commercial aviation market and analysis from 2012-2022.

112 tables, charts and graphs quantifying, analysing and forecasting the fuel efficiency technologies in the commercial aviation market from 2012-2022.

Analysis and forecasts informed by extensive consultation with industry expert opinion. Full transcript of an interview is included from a leading aircraft engine manufacturer.

Regional market forecasts and analysis for the 7 regional commercial aviation markets.

Global and regional submarket forecasts from 2012-2022 for 4 fuel efficiency technology submarkets within the commercial aviation market.

Profiles of the leading aircraft engine manufacturers within the commercial aviation market.

Profiles of the leading aerospace companies.

SWOT analysis of strengths, weakness, opportunities and threats facing fuel efficiency technologies in the commercial aviation market over the next ten years.

Comprehensive analysis of the fuel efficiency technologies in the commercial aviation market

The Fuel Efficiency Technologies in the Commercial Aviation Market 2012-2022 report examines this sector critically by drawing upon a rich combination of primary and secondary research with a comprehensive review of recent contracts, official corporate and governmental announcements, news reports, industry publications, market analysis, policy documents, industry statements and an extensive consultation of expert opinion.

### **Why you should buy Fuel Efficiency Technologies in the Commercial Aviation Market 2012-2022**

You will gain a comprehensive understanding of the global fuel efficiency technologies in the commercial aviation market and how it will develop over the next ten years.

You will find 112 tables, charts and graphs quantifying, analysing and forecasting the fuel efficiency technologies in the commercial aviation market in detail from 2012-2022.

The analysis and forecasting has been reinforced by extensive consultation with expert opinion. Within the report, you will read a full transcript of an original and exclusive interview with a leading aircraft engine manufacturer:

Alan Epstein of Pratt & Whitney (P&W)

You will receive regional market forecasts from 2012-2022 for the 7 leading commercial aviation markets, with submarket forecasts and analysis of the fuel efficiency technology submarkets within each regional commercial aviation market:

Asia-Pacific

North America

Europe

South America

Middle-East

Africa

Australasia

You will receive 4 submarket forecasts from 2012-2022 for the following fuel efficiency technology submarkets at the global level and for each region.

Aircraft engines

Biofuels

Advanced composites

Air traffic management systems

You will be able to compare the fuel efficiency technologies and discover which regional commercial aviation markets will be investing in which types of technologies over the forecast period.

You will find profiles of the leading aircraft engine manufacturers

You will find profiles of the leading aerospace companies.

You will view a SWOT analysis of the main strengths, weaknesses, opportunities and threats to fuel efficiency technologies in the commercial aviation market over the next ten years.

### **You can order this report today**

Anybody with an interest in fuel efficiency technologies and aviation should gain valuable information and insight from this new study by visiongain, which analyses one of the most exciting markets in the commercial aviation industry. Fuel efficiency technologies in the commercial aviation market, offer substantial business and investment opportunities and is becoming an increasingly important component of the civil aviation market in several key regional markets.

This visiongain aviation report will be valuable both to those already involved in the

aviation market and those wishing to enter the market in the future. Gain an understanding of how to tap into the potential of this market by ordering Fuel Efficiency Technologies in the Commercial Aviation Market 2012-2022.

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## **COMPANIES LISTED**

Air Austral

Air Canada

Air China

Air France

Air New Zealand

Airbus

Aircelle

AirTran

AltAir

American Airlines

Amyris Biotechnologies

ANA Nippon Airways

Arlanda Airport

Atlas Air

ATR

Avianca

Avio S.p.A

BAE Systems PLC  
Bell  
BioJet  
Boeing  
Bombardier Inc  
Bye Energy  
Camelina  
Cargill  
Cessna  
CFM International (CFMI)  
China Eastern Airlines  
Citation Air  
ClearFuels Technology  
COMAC  
Continental Airlines  
CRC  
Dassault Aviation SA  
Deharde Maschinenbau  
Delta Airlines  
Dynamotive Energy Systems Corp.  
E85  
EADS  
Easyjet  
Embraer  
Emirates  
Etihad Airways  
Fedex Express  
Finmeccanica  
Finnair  
GE Aviation  
General Dynamics Corporation  
General Electric Company (GE)  
Goodrich Corporation  
Great Plains  
Gulf Air  
Hainan Airlines  
Hamilton Sundstrand  
Hexcell  
HITCO Composite Materials

Honeywell International Inc.  
Hughes Hardwood  
ILFC  
Indigo  
International Aero Engines  
Irkut  
Italian Avio  
ITP Engines  
ITT  
JAEC  
Japanese Aero Engine Consortium  
Jetblue Airways  
JetStar  
KLM  
L-3 Communications  
LAN  
LATAM  
Lockheed Martin Corporation  
Lufthansa German Airlines  
McDonnell Douglas  
Mexican Airlines  
Mitsubishi Heavy Industries  
MTU Aero Engines  
Neste Oil  
Northrop Grumman  
NorthSea Petroleum  
Northwest Airlines  
Novare Biofuels  
NPO Saturn  
Polar Air Cargo  
Pratt & Whitney (P&W)  
Pratt & Whitney Canada  
Pratt & Whitney Global Service Partners  
Qantas  
Qatar Airways  
Raytheon Company  
Renewable Oil Corporation  
Rentech  
Rolls-Royce Aerospace



Rolls-Royce Deutschland  
Safran SA  
Samsung Techwin  
Sapphire Energy  
Shenzhen Airlines  
Sikorsky  
Singapore Airlines  
SkyEnergy  
Snecma  
Solazyme  
Southwest Airlines  
Spirit AeroSystems Holdings  
Spring Associates  
Star Alliance  
Sun Biofuels Mozambique  
Sustainable Oils  
Swedish Volvo Aero  
TACA  
TAM  
Techspace Aero  
Textron, Inc  
Thales  
Toho Tenax  
United Airlines  
United Technologies Corporation (UTC)  
UPS Airlines  
US Airways  
Virgin Atlantic  
Virgin Australia  
Volvo Aero of Sweden  
World Bank

## **GOVERNMENT AGENCIES AND OTHER ORGANISATIONS MENTIONED IN THIS REPORT**

ACARE  
Advisory Council for Aeronautics Research in Europe  
Air Transport Association of America  
ASTM International

Auxiliary Service Agency  
Brazilian Air Force  
Chinese Ministry of Transport  
Civil Aviation Administration of China (CAAC)  
Commercial Alternative Aviation Fuel Initiative (CAAFI)  
Defense Energy Support Center  
Environmental Protection Agency (EPA)  
Environmentally Friendly Engine (EFE)  
European Aviation Safety Agency (EASA)  
German Aeronautics Research Programme  
German Ministry of Economics  
Glenn Research Centre  
Guangzhou Baiyun  
Gulf Cooperation Council (GCC)  
IEA  
Mexican Airports  
Ministry of Economics  
NASA  
NAVAIR  
Next Generation Air Transportation System (NextGen)  
Petro China  
Shanghai Pudong  
Single European Sky ATM Research programme (SESAR)  
Stuttgart University  
SWAFEA  
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Wright Patterson Air Force Base

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