

Commercial Airport Lighting - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Commercial Airport Lighting Market size is estimated at USD 680.13 million in 2024, and is expected to reach USD 977.47 million by 2029, growing at a CAGR of 6.91% during the forecast period (2024-2029).

Increasing air traffic, airport infrastructure expansion and modernization, and compliance with emerging aviation safety and sustainability standards are positively influencing the commercial airport lighting market. However, the market is susceptible to budget constraints, high installation and maintenance costs, a complex regulatory environment, and technological challenges.

Key Highlights

Modernizing airport infrastructure means providing passengers with a seamless travel experience, from check-in to boarding and beyond. It can also improve operational efficiency, reducing flight delays and cancellations due to maintenance issues or outdated technology. For instance, replacing aging runway lighting systems with new LED technology can enhance visibility, improve safety, and reduce energy consumption.

According to the International Air Transport Association (IATA), the number of passengers traveling by air is expected to double to 8.2 billion by 2037, with Asia-Pacific leading the growth. The rapid increase in air passenger traffic has necessitated the construction of new aviation infrastructure at strategic locations to support new routes while also boosting the expansion of the current infrastructure to handle more passengers daily/annually. On the other hand, limited funding and budgetary constraints may hinder investments in airport lighting projects, especially for smaller airports or

developing regions, leading to delays or scaled-down projects.

Commercial Airport Lighting Market Trends

Runway Lighting Systems Projected to Show Significant Growth

The increasing aircraft movement, in terms of landing and takeoff, is driving the need to install runway lighting systems that comply with the global standards of airport operations. Increasing investments in airport expansion/modernization projects and a rising focus on enhancing airport infrastructure are driving the demand for runway lighting systems.

The rapid growth in passenger traffic has also improved the frequency of aircraft movement at airports. The global aircraft movement witnessed a 14.8% YoY growth in 2022 and reached around 85 million, with the top 20 airports constituting about 11.4% of aircraft traffic.

The need to create and serve new routes encouraged the construction of new airports worldwide. It has also fostered the upgrade/modernization of existing ones to effectively cater to a larger passenger volume. The governments/aviation authorities have also awarded several contracts for runway/ airfield lighting systems to facilitate aircraft's safe landing and takeoff even under adverse weather conditions.

For instance, in October 2023, the Tanzanian Government inaugurated the Dodoma Airport's airfield lighting system for night landings. The Government aims to have such a system installed at all airports in the country.

Thus, growing investments in developing new airports and increasing focus on modernizing existing airports are projected to drive the growth of the runway lighting systems segment during the forecast period.

Asia-Pacific to Experience the Fastest Growth

The commercial airport lighting market in Asia-Pacific is expected to witness growth during the forecast period. The construction of new airports and the modernization of the existing airports are expected to generate demand for new and innovative lighting systems.

A surge in passenger traffic in various countries like China, India, Indonesia, and Australia is expected to increase investments toward expanding their existing aircraft infrastructure and constructing new airports.

The Indian Ministry of Civil Aviation has released the “Vision 2040” report, which states that there will be 190-200 functioning airports in India by 2040, and the operating commercial fleet size is projected to be around 2,360 aircraft by 2040. In March 2024, the Indian Government inaugurated 15 airport projects, entailing a total capital expenditure of INR 98 billion (USD 1.17 billion), including new terminal buildings at 12 airports such as Delhi, Lucknow Airport, and Pune.

Regional airports are also replacing their existing lights with new systems to conserve energy and carbon emissions. In February 2023, Adani Group, through the EPC Contractor Larsen & Toubro, partnered with ADB SAFEGATE to utilize Airfield 4.0 technology at the Navi Mumbai International Airport, ensuring advanced future capability as it continues development on the first phase of construction scheduled for completion by the end of 2024. The airport plans to service 20 million annual passengers and features two runways and three terminals spread out in a lotus shape. Such initiatives in this region may propel the market's growth during the forecast period.

Commercial Airport Lighting Industry Overview

The commercial airport lighting market is fragmented, with many players. Some prominent players are ADB SAFEGATE, TKH Airport Solutions BV, OCEM Airfield Technology (Energy Technology Srl), Eaton Corporation PLC, and Astronics Corporation.

With the increased implementation of efficient LED-based airfield lighting instead of incandescent lighting, companies are also exploring new wireless or contactless power concepts that minimize installation and maintenance challenges. There is a growth in investments in lighting with built-in intelligence, which enables the retrieval of data and performance prediction, allowing more preventive maintenance. It can give the market players a competitive advantage over their competitors. Such investments are expected to drive the growth of the players during the forecast period.

Additional Benefits:

The market estimate (ME) sheet in Excel format

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Contents

1 INTRODUCTION

- 1.1 Study Assumptions
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

- 4.1 Market Overview
- 4.2 Market Drivers
- 4.3 Market Restraints
- 4.4 Industry Attractiveness - Porters Five Forces Analysis
 - 4.4.1 Threat of New Entrants
 - 4.4.2 Bargaining Power of Buyers/Consumers
 - 4.4.3 Bargaining Power of Suppliers
 - 4.4.4 Threat of Substitute Products
 - 4.4.5 Intensity of Competitive Rivalry

5 MARKET SEGMENTATION

- 5.1 By Type
 - 5.1.1 Runway Lighting Systems
 - 5.1.2 Taxiway Lighting Systems
 - 5.1.3 Apron Lighting Systems
- 5.2 By Technology
 - 5.2.1 LED
 - 5.2.2 Non-LED
- 5.3 By Position
 - 5.3.1 Inset Airfield Lights
 - 5.3.2 Elevated Airfield Lights
 - 5.3.3 Precision Approach Path Indicator (PAPI)
- 5.4 By Geography
 - 5.4.1 North America
 - 5.4.1.1 United States

- 5.4.1.2 Canada
- 5.4.2 Europe
 - 5.4.2.1 United Kingdom
 - 5.4.2.2 France
 - 5.4.2.3 Germany
 - 5.4.2.4 Spain
 - 5.4.2.5 Rest of Europe
- 5.4.3 Asia-Pacific
 - 5.4.3.1 China
 - 5.4.3.2 India
 - 5.4.3.3 Japan
 - 5.4.3.4 South Korea
 - 5.4.3.5 Rest of Asia-Pacific
- 5.4.4 Latin America
 - 5.4.4.1 Brazil
 - 5.4.4.2 Mexico
 - 5.4.4.3 Rest of Latin America
- 5.4.5 Middle East and Africa
 - 5.4.5.1 Saudi Arabia
 - 5.4.5.2 United Arab Emirates
 - 5.4.5.3 Rest of Middle East and Africa

6 COMPETITIVE LANDSCAPE

- 6.1 Company Profiles
 - 6.1.1 ADB SAFEGATE
 - 6.1.2 Honeywell International Inc.
 - 6.1.3 TKH Airport Solutions BV
 - 6.1.4 OCEM Airfield Technology (Energy Technology Srl)
 - 6.1.5 Airsafe Airport Equipment Co. Ltd
 - 6.1.6 Eaton Corporation PLC
 - 6.1.7 Youyang Airport Lighting Equipment Inc.
 - 6.1.8 ATG Airports Limited
 - 6.1.9 Astronics Corporation
 - 6.1.10 Abacus Lighting Ltd
 - 6.1.11 Signify Netherlands BV
 - 6.1.12 Siemens AG
- 6.2 Other Companies
 - 6.2.1 Flight Light, Inc.

- 6.2.2 Solutions4GA Sp. z o.o.
- 6.2.3 Sealite Pty Ltd
- 6.2.4 Airport Lighting Company
- 6.2.5 Airport Lighting Specialists

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

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