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BASICS OF AIRPORT ENERGY MANAGEMENT
ONLINE TRAINING BY KRISHNAJI PAWAR
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MODULE

L4

Importance of Conservation in Aviation Sustainability.

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BASICS OF AIRPORT ENERGY MANAGEMENT

Conservation is vital for aviation sustainability. It can help reduce the environmental impact of flying and make air travel more sustainable. Airlines, airports, and passengers all have a role to play in conservation. By working together, we can ensure that aviation continues to connect people and businesses while protecting the planet for future generations.

Learning Objectives

- Course Overview and Introduction
- Airports- Energy & Sustainability Perspectives
- Overview of energy use in airport environments
- Importance of conservation in aviation sustainability.
- Key energy consumption areas in airports
- Global trends in energy efficiency
- Energy Consumption Reduction Plan
- Benefits of energy management
- Summary and resources

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INTRODUCTION

- Conservation is essential for aviation sustainability, addressing the environmental impacts of aviation such as greenhouse gas emissions.
- Aviation contributes to 2-3% of global CO_2 emissions, necessitating conservation practices to mitigate this impact. airlines, airports, and passengers, ensuring a sustainable future for aviation while minimizing environmental impacts.



KEY AREAS OF CONSERVATION IN AVIATION



- Key areas of conservation in aviation include:

- Fuel Conservation:
  - Adoption of more fuel-efficient aircraft designs like Boeing 787 and Airbus A350.
  - Implementation of operational efficiencies, optimizing flight paths and reducing delays.
  - Investment in Sustainable Aviation Fuels (SAFs) made from renewable resources, potentially reducing carbon footprints by up to 80%.
- Water Conservation:
  - Large water consumption for various airport and airline operations requires measures such as recycling water for cleaning and irrigation and using water-efficient fixtures.
- Noise Pollution:
  - Noise reduction strategies include designing quieter aircraft, optimizing flight paths, and engaging local communities to address noise concerns.
- Biodiversity Conservation:
  - Actions include habitat restoration and wildlife management to protect local ecosystems impacted by airports.

- Conservation plays a collaborative role involving airlines, airports, and passengers, ensuring a sustainable future for aviation while minimizing environmental impacts

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AVIATION: FIVE REASONS WHY TARGETING SUSTAINABILITY WILL PAY OFF

- The aviation industry is recognizing sustainability as vital for recovery from the COVID-19 pandemic.
- A report indicated that sustainable equity funds outperformed traditional funds, showcasing the economic potential of sustainability.
- Many organizations in aviation have not planned for climate change, often citing financial constraints.
- Investing in sustainability is framed as essential for adapting to climate changes impacting operations and generating future income.
- Climate change contributes significantly to operational delays and increased costs in aviation.
- Proactive measures can mitigate severe weather impacts, reduce insurance costs, and manage emissions more cost-effectively.



AVIATION: FIVE REASONS WHY TARGETING SUSTAINABILITY WILL PAY OFF +

- Sustainable practices, like operational optimization, can lead to significant cost reductions and efficiency gains.
- Consumer trends show a growing preference for environmentally responsible travel options, which can enhance company reputations and revenues.
- Regulatory shifts are driving the aviation sector towards sustainability, influencing operational practices and funding opportunities.
- The European Investment Bank and other private financiers are increasingly favoring sustainable projects.
- A shared understanding of sustainability is crucial for attracting investments and talent in the industry.
- Stakeholders are encouraged to conduct audits on climate impacts, set improvement targets, and align goals with broader business strategies for sustainability.
- Measuring sustainability progress and securing funding are critical steps in enhancing the aviation sector's green credentials.
- The argument for investing in sustainability is both economic and moral, ensuring the relevance of aviation in a changing world.



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