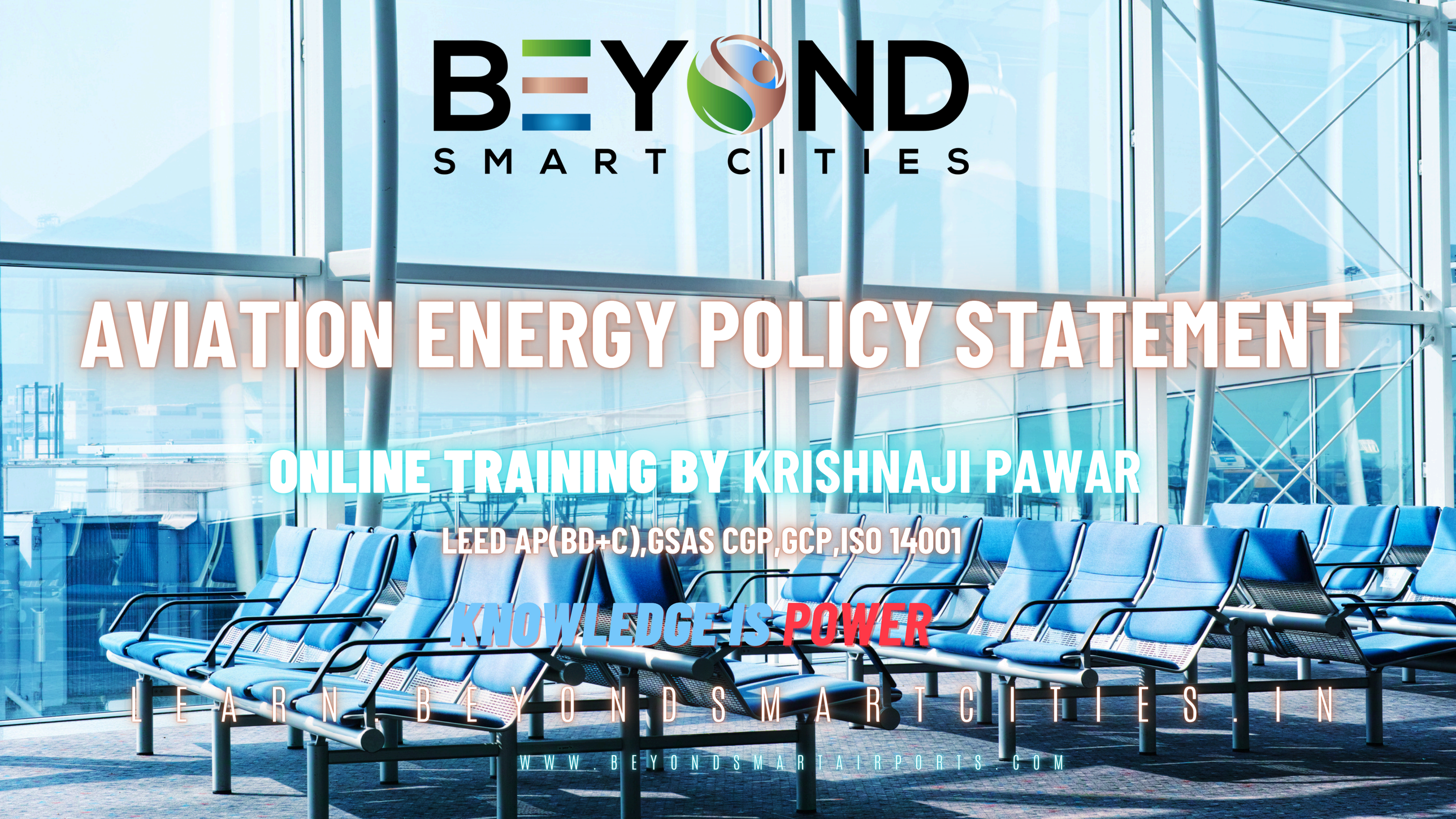

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MODULE L2

Aviation Energy Policy Statement

KRISHNAJI PAWAR - CEO & FOUNDER

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AVIATION ENERGY POLICY STATEMENT

The Aviation Energy Policy Statement is vital for promoting sustainability in aviation. It emphasizes renewable energy, efficiency, regulatory measures, and stakeholder participation to aspire toward a sustainable future. With the rise in global travel, these policies are crucial for aligning connectivity needs with environmental protection.

Learning Objectives

- Course Overview and Introduction
- Aviation Energy Policy Statement
- Environmental and Energy Policy Framework and Principles
- Key Aviation Environmental and Energy Goals
- Aviation Environmental and Energy Strategies
- Sample Energy Policy for Airports
- Summary and Resources

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INTRODUCTION

- Aviation is integral to global transportation but contributes significantly to energy consumption and greenhouse gas emissions.
- Aviation Energy Policy Statements are created to outline sustainable and energy-efficient strategies.
- These policies aim to reduce energy use, lower emissions, and encourage alternative energy sources.
- Emphasis is placed on renewable energy, with a shift from traditional fossil fuels to alternatives like biofuels from organic materials.
- Energy efficiency in aircraft design is crucial; modern technologies minimize fuel usage through better aerodynamics and lightweight materials.



AVIATION ENERGY POLICY STATEMENT +



- Regulatory frameworks established by organizations like ICAO guide national policies and standards for emissions and environmental impact.
- Collaboration among stakeholders, including airlines, airports, and policymakers, is essential for the implementation of effective energy policies.
- Challenges include high costs of alternative fuels, infrastructure needs, and the speed of technological advances, requiring ongoing research and adaptation of policies.
- Overall, the Aviation Energy Policy Statement is vital for promoting sustainability in aviation amidst growing travel demands.

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AVIATION ENERGY POLICY STATEMENT

- Definition: An Aviation Energy Policy Statement outlines a commitment to energy management and environmental protection, aiming for sustainable aviation growth.
- Roadmap to Net-Zero: The statements serve as a guide for achieving net-zero carbon emissions by 2050.





CORE COMPONENTS:AVIATION ENERGY POLICY STATEMENT +



Core Components:

1. Guiding Principles: Emphasis on sustainable energy sources for public health and environmental welfare.
2. High-Level Goals: Targets include a 2% annual improvement in fuel efficiency and carbon-neutral growth.
3. Sustainable Aviation Fuel (SAF): Development of SAF to replace fossil fuels, with a goal of 3 billion gallons by 2030 in the U.S.
4. Technological & Operational Innovations: Support for research in aircraft technologies and operational methods to reduce emissions.
5. Global Collaboration: Alignment with international organizations like the ICAO and CORSIA.

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KEY STRATEGIC OBJECTIVES

- Energy Efficiency: Enhancing National Airspace System efficiency through advanced management.
- Market-Based Measures: Implementing carbon offsetting as a transitional measure.
- Risk Management: Reducing risks for new fuel plant commercialization via federal incentives.



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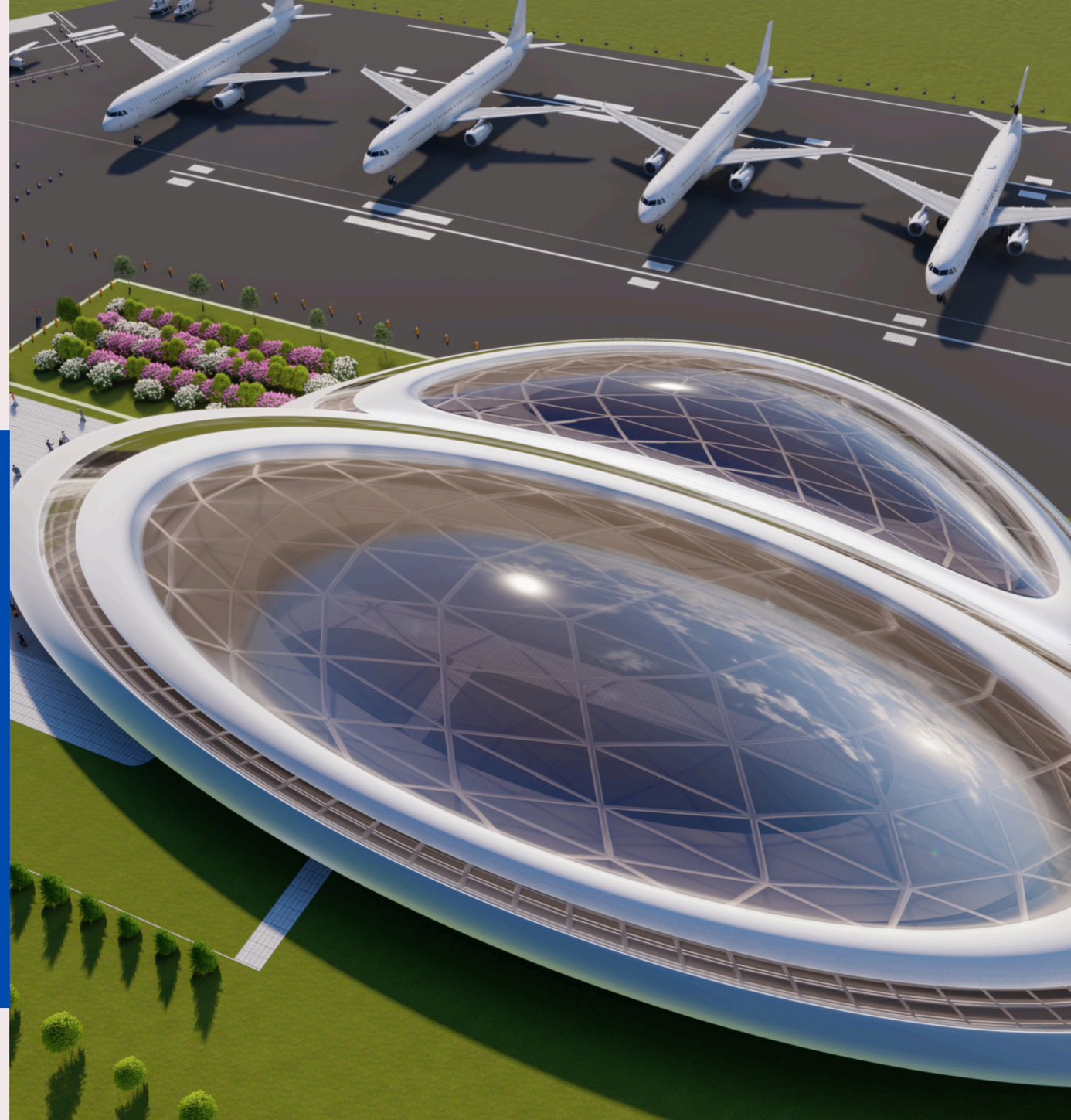
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