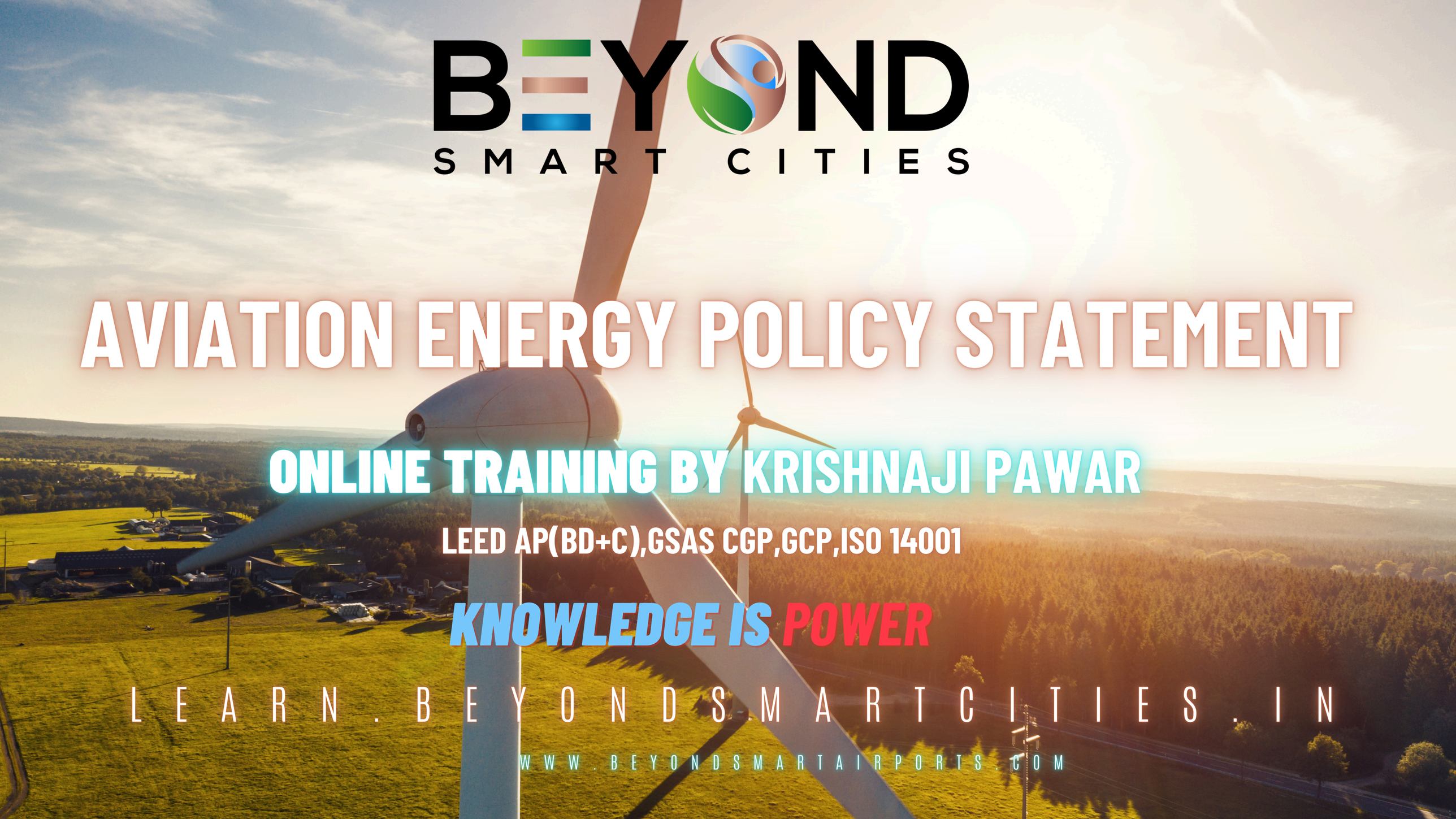

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AVIATION ENERGY POLICY STATEMENT
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MODULE L7

Summary and Resources

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AVIATION ENERGY POLICY STATEMENT

The Aviation Energy Policy Statement outlines strategies for promoting sustainable energy practices at airports, which are major energy consumers and greenhouse gas emitters. Key components include energy efficiency upgrades, investment in renewable sources such as solar and wind, promotion of sustainable aviation fuel, carbon offsetting, stakeholder engagement, and regular monitoring of energy use and emissions.

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

- The Aviation Energy Policy Statement outlines strategies for sustainable energy practices in airports due to rising global air travel.
- Airports are significant energy consumers, contributing to greenhouse gas emissions, highlighting the need for effective energy policies.
- The policy is crucial for promoting sustainability and mitigating the environmental impact of expanding air travel.

KEY COMPONENTS OF THE POLICY

- Energy Efficiency: Enhancing operational energy efficiency with upgrades such as LED lighting and optimized heating/cooling systems.
- Renewable Energy Sources: Supporting investments in solar and wind power to decrease dependency on fossil fuels.
- Sustainable Fuels: Promoting sustainable aviation fuel (SAF) to reduce carbon emissions from aircraft.
- Carbon Offsetting: Exploring programs that balance emissions through initiatives like reforestation.
- Stakeholder Engagement: Involving airlines, transportation providers, and local communities in collaborative energy planning.
- Monitoring and Reporting: Regular tracking and public reporting of energy use and emissions to evaluate sustainability efforts





KEY COMPONENTS OF THE POLICY +



- Implementation strategies consist of conducting energy audits, providing training and education, and pursuing funding for energy projects.
- The policy is crucial for promoting sustainability and mitigating the environmental impact of expanding air travel.

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RESOURCES

- FAA's Aviation Environmental and Energy Policy Statement serves as a U.S. guide for energy assessments in aviation.
- U.S. Aviation Climate Action Plan aims for a 50% reduction in greenhouse gas emissions by 2030 and net-zero by 2050, with a focus on producing 3 billion gallons of sustainable aviation fuels (SAF) by 2030.
- ICAO Resolution A42-21 establishes a global goal for net-zero carbon emissions in aviation by 2050.
- CORSIA mandates airlines to offset CO2 emissions beyond a baseline level.
- ICAO's Renewable Energy Guidance offers a manual for implementing renewable energy technologies at airports to reduce carbon footprints.
- The Global SAF Framework provides technical standards and lifecycle carbon reduction requirements for SAF.
- OECD/ITF reports summarize decarbonization actions from 19 countries regarding sustainable aviation fuels.
- The Journal of Energy Policy publishes research on the implications of aviation energy supply.
- Research on ScienceDirect explores various scenarios for decarbonizing aviation, including Power-to-Liquid (PtL) and biofuels.
- ASTM International offers resources for qualification of alternative fuels for commercial markets.



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