
BEYOND
SMART CITIES
AVIATION ENERGY POLICY STATEMENT
ONLINE TRAINING BY KRISHNAJI PAWAR
LEED AP(BD+C),GSAS CGP,GCP,ISO 14001
KNOWLEDGE IS POWER
LEARN.BEYONDSMARTCITIES.IN
WWW.BEYONDSMARTAIRPORTS.COM

BEYOND SMART CITIES

MODULE
L5

Aviation Environmental and Energy Strategies

KRISHNAJI PAWAR - CEO & FOUNDER
LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

WWW.BEYONDSMARTCITIES.IN
WWW.BEYONDSMARTAIRPORTS.COM





AVIATION ENERGY POLICY STATEMENT

Aviation environmental and energy strategies are essential for reducing the industry's climate change impact and fostering sustainable growth. The aviation sector can minimize its environmental footprint through technological innovations, sustainable fuels, operational enhancements, and supportive policies, while maintaining its role in connecting people and economies. Achieving a sustainable aviation future demands continuous commitment and cooperation from all stakeholders.

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

BEYOND SMART CITIES

INTRODUCTION

- Aviation is vital for global transport but has significant environmental impacts, including greenhouse gas emissions and noise pollution.
- The industry contributes approximately 2–3% of global CO_2 emissions, primarily through aircraft fuel combustion and high-altitude NOx emissions.



STRATEGIES TO MITIGATE THESE IMPACTS INCLUDE:



- Technological Innovations: Modern aircraft designs improve fuel efficiency through lightweight materials and advanced aerodynamics, with new engines consuming up to 16% less fuel.
- Sustainable Aviation Fuels (SAFs): Derived from renewable sources, SAFs can reduce lifecycle greenhouse gas emissions by up to 80%. Airlines are investing in SAF production to reduce their carbon footprint.
- Operational Improvements: Enhancements like optimized flight paths and reduced taxi times contribute to fuel savings and lower emissions.
- Electrification and Alternative Propulsion: Development of electric and hybrid-electric aircraft aims to cut emissions, particularly for short-haul flights.

BEYOND SMART CITIES



AVIATION ENVIRONMENTAL AND ENERGY STRATEGIES



- Government regulations influence these strategies, with initiatives like the ICAO's CORSIA program aiming to stabilize emissions since 2020.
- Future challenges include balancing environmental goals with the industry's growth and ensuring investment in sustainable technologies.
- Collaborative efforts among governments, manufacturers, and airlines are crucial for creating a viable market for SAFs and advancing new technologies.
- Continuous commitment and cooperation will be needed to achieve a sustainable aviation future while maintaining connectivity.

BEYOND SMART CITIES

BEYOND SMART CITIES

CONTACT US

+91 6363032722

info@beyondsmartcities.in

learn.beyondsmartcities.in

#55,HMR Layout ,Bengaluru ,India

WWW.BEYONDSMARTAIRPORTS.COM



BEYOND
SMART CITIES

BEYOND
SMART AIRPORTS

THANK YOU



WWW.BEYONDSMARTAIRPORTS.COM