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BASICS OF AIRPORT ENERGY MANAGEMENT
ONLINE TRAINING BY KRISHNAJI PAWAR
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MODULE
L7

Energy Consumption Reduction Plan

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BASICS OF AIRPORT ENERGY MANAGEMENT

Airports are busy places where many planes land and take off every day. They need a lot of energy to operate. This energy is used for lighting, heating, cooling, and running machines. Reducing energy consumption is important for airports to save money and help the environment. This plan will explain how airports can reduce the energy they use.

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

- Airports require significant energy for lighting, heating, cooling, and machinery.
- Energy-efficient lighting, such as LED bulbs, can significantly reduce costs and electricity consumption.
- Smart heating and cooling systems use sensors to optimize temperature based on occupancy, enhancing efficiency.
- Utilizing renewable energy sources like solar panels and wind turbines can lower carbon footprints and reliance on non-renewable energy.

ENERGY CONSUMPTION REDUCTION PLAN FOR AIRPORTS +

- Conducting energy audits helps identify energy waste and areas for improvement, such as upgrading insulation.
- Education on energy conservation for staff and passengers promotes simple yet effective energy-saving actions.
- Sustainable transportation options, like electric shuttle buses, can significantly decrease energy use and emissions.
- Overall, reducing energy consumption in airports benefits both financial savings and environmental protection.





ENERGY CONSUMPTION REDUCTION PLAN



- Conduct a comprehensive assessment of the airport's current energy consumption, analyzing energy bills, meter readings, and data from energy systems.
- Set measurable reduction targets based on percentage reductions or specific consumption goals.
- Identify and prioritize energy-saving measures, such as installing energy-efficient fixtures.
- Develop a detailed implementation plan that includes timelines, responsibilities, and budget considerations.

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ENERGY CONSUMPTION REDUCTION PLAN +

- Engage airport staff, tenants, and stakeholders through training programs and awareness campaigns to adopt energy-saving practices.
- Implement a monitoring system to regularly track and measure energy consumption, identifying trends and opportunities for improvement.
- Establish a reporting mechanism to communicate progress, challenges, and achievements to management and stakeholders.
- Regularly evaluate the effectiveness of measures and seek areas for further improvement by soliciting feedback and exploring new technologies.



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