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MODULE
12

Operations and Maintenance for Whole School Sustainability

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Operations and Maintenance (O&M) is a critical aspect of school sustainability, ensuring efficient, sustainable, and effective operation of facilities. It involves strategies and practices to ensure the physical infrastructure and organizational processes support sustainable outcomes.

Learning Objectives

- Green school buildings are dynamic learning environments.
- **Operations and Maintenance for Whole School Sustainability**
- Meaningful, purposeful, and engaging learning
- Sustainable Spaces and Smart Transportation
- Energy Efficiency - Lighting
- Energy Efficiency - Plug Loads & HVAC Systems
- Water Efficiency and Quality
- Indoor Environment: Air Quality and Acoustics
- Smart Cleaning & Integrative Pest Management
- Materials and Resources
- Emerging Design and Technology
- Summary and Resources
- SCS Quiz: Test Your Knowledge!

INTRODUCTION

Operations and Maintenance for School Sustainability

- Crucial for efficient, sustainable operation of school facilities.
- Includes strategies to ensure physical infrastructure and organizational processes support sustainable outcomes.
- Enhances resource efficiency by reducing energy and water consumption.
- Prevents deterioration of facilities, benefiting financial sustainability.
- Reduces health and safety risks associated with hazards.
- Provides rich, hands-on learning experiences for students.

O&M FRAMEWORK FOR SUSTAINABILITY

- Facility Management: Strategic oversight and operation of physical school environments.
- Preventive Maintenance: Systematic inspection, detection, and correction of potential problems.
- Energy Management: Monitoring and controlling energy consumption.
- Waste Management: Minimizing waste generation, promoting recycling, and proper disposal of hazardous materials.
- Water Management: Strategies to reduce water consumption and improve water quality.
- Community Engagement and Stakeholder Collaboration: Fostering a culture of stewardship and shared responsibility.



UNDERSTANDING OPERATIONS AND MAINTENANCE IN LEARNING ENVIRONMENTS

- O&M refers to the daily operations and maintenance of physical facilities.
- It includes facility management, energy efficiency, waste management, and green procurement.
- Effective O&M practices extend the life of school facilities, optimize resource use, and reduce environmental impact.



PRINCIPLES OF SUSTAINABLE OPERATIONS AND MAINTENANCE

- Resource Efficiency: Emphasizes the efficient use of resources like energy, water, and materials.
- Waste Management: Reduction of waste generation, promotion of recycling, and implementation of composting programs are crucial for sustainability.
- Indoor Environmental Quality (IEQ): Maintaining a high IEQ is vital for the health and well-being of students and staff.
- Green Procurement: Prioritizing environmentally friendly products and services supports sustainable markets.



IMPLEMENTATION STRATEGIES

- Sustainability Planning: Develop a comprehensive plan aligning O&M practices with broader educational goals.
- Stakeholder Engagement: Engage stakeholders including students, staff, parents, and community members.
- Training and Capacity Building: Provide training for staff and students on sustainable practices.
- Monitoring and Evaluation: Establish key performance indicators (KPIs) to track sustainability outcomes.



CHALLENGES & CONSIDERATIONS



- Funding Limitations: Budget constraints can hinder the implementation of sustainable practices.
- Resistance to Change: Cultural inertia and resistance from staff or stakeholders can impede the adoption of new practices.
- Regulatory Compliance: Schools must stay informed about relevant policies and ensure compliance while pursuing sustainability goals.



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THANK YOU

