DISEASE-RESILIENT AND ENERGY-EFFICIENT SMART CENTRALIZED AIR-CONDITIONING SYSTEMS

The Asian Development Bank (ADB) is piloting a smart centralized air-conditioning system that can reduce energy consumption and disease transmission.

Financed through the ADB-administered Clean Energy Fund and the High-Level Technology Fund, the pilot project aims to promote efficient and improved indoor air quality for Asia and the Pacific.

Key Takeaways

1. Smart centralized air-conditioning systems can reduce energy consumption, meet hygiene standards for indoor air quality, and help stop disease transmission.

2. ADB identified the disease-resilient and energy-efficient smart centralized air-conditioning system through an innovation challenge.

3. Smart centralized air-conditioning systems are being piloted in three public buildings in Sri Lanka.

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At ADB, we are leveraging the power of smart digital technologies to create energy-efficient and disease-resilient centralized air-conditioning systems suitable for buildings in our developing member countries.

Priyantha Wijayatunga
Senior Director for Energy, ADB

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Leveraging Smart Technologies

In September 2020, ADB initiated a program to implement disease-resilient and energy-efficient centralized air-conditioning systems for its developing member countries.

Technological Innovations

ADB launched a technology innovation challenge to identify smart and flexible centralized air-conditioning systems. Over 200 participants from 37 economies, comprising start-ups, academia, research organizations, technology providers, and independent researchers, participated in the challenge.

The Sri Lanka Ministry of Power and Energy and the Sri Lanka Sustainable Energy Authority, the governing bodies responsible for pioneering sustainable energy solutions in Sri Lanka, are supporting ADB in the testing of the smart air-conditioning systems in three pilot buildings.

Healthy Air, Clean Energy

Smart air-conditioning systems with energy-saving technology will reduce the operational cost of public buildings, contributing to climate change mitigation.

Smart and climate-friendly air-conditioning systems can provide up to 45% energy savings while delivering a safer and healthier indoor environment for building users.

David Morgado
Senior Energy Specialist, ADB

THE PROJECT

Regional Support to Build Disease-Resilient and Energy-Efficient Centralized Air-Conditioning Systems

Supported under Technical Assistance 6563: Regional Support to Build Disease Resilient and Energy Efficient Centralized Air-conditioning Systems

Financed by:
Clean Energy Fund under the Clean Energy Financing Partnership Facility and High-Level Technology Fund

Visit our website for more information: https://www.adb.org/projects/54210-001/main