



A Building Clouds Solution

Preventing Mold and Mildew by Controlling Humidity in Warehouses

Budget-Friendly Smart Warehouse Solving Contamination Problems

A newly constructed 300,000 square foot warehouse faced a mold growth issue at the ceiling level, 36 feet above the ground. Extensive measures involving hazardous chemicals, hazmat suits, and aerial lifts were required on multiple occasions. It was a dangerous situation that needed a resolution before the building could be occupied.

Energy ETC, a Building Clouds Master Partner, offered an affordable and effective solution: transforming the warehouse into a "Smart Warehouse."

The Building Clouds solution wirelessly controls six large exhaust fans on the roof. Eliminating the need for expensive wire pulls. Wireless sensors monitor indoor conditions, activating the fans only when outdoor conditions are optimal to prevent humid air from entering the warehouse.

This solution provided various benefits. Firstly, it eliminated the need for hazardous mold remediation and the use of dangerous chemicals, ensuring the safety of the janitorial crew. Additionally, the solution offered exhaust fan performance tracking and electrical sub-metering for each fan, providing valuable insights and control. Moreover, the implementation of this new method for controlling the exhaust fans resulted in "unexpected" energy savings exceeding 50%.



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Solution Components

- Opendiem SAAS by Building Clouds
- Building Clouds Wireless [strati-fi IoT Nodes](#)
- BMS Assurance by Energy ETC
- Industrial Cellular Router

Solution Benefits

- Cost-Effective Straightforward Solution
- No Further Requirement for Mold Remediation
- Energy Savings Over 50% From the Original Design
- 24x7 Operation Monitoring & Control

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