



— OPTIMUM ENERGY

Multi-Purpose NBA Stadium



Oklahoma City

Overview

This case study covers a successful energy optimization project at a 586,000-square-foot, multi-purpose arena in Oklahoma City, managed by ASM Global and owned by the city. It opened in 2002 as part of the city's MAPS initiative. The project aimed to maximize efficiency through targeted HVAC system improvements.

Energy Efficiency & Sustainability

An energy optimization company conducted a project aimed at enhancing the arena's energy efficiency, focusing on the following:

- Engineering Analysis: Thorough review of space-specific HVAC needs.
- Reprogramming: Optimization of terminal units and air handling systems.
- Custom Programming: Development of tailored settings for various operational scenarios, including events and pandemic periods.
- Utility Monitoring: Measurement and verification of energy savings.

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Financial Impact

- Project Cost: \$150,000
- Year 1 Savings: \$100,000
- Year 2 Savings: \$4,000,000 (during pandemic operational mode)

This project highlights the remarkable impact of strategic energy optimization in large-scale venues. By leveraging thorough engineering analysis, system reprogramming, and adaptive programming for different operational modes, the arena achieved significant cost savings and energy efficiency, particularly during challenging periods like the pandemic. The \$4 million in savings during Year 2 underscores the importance of having flexible and responsive building management systems. With ongoing improvements, the arena continues to be a leader in operational efficiency, ensuring long-term success as a premier entertainment destination.