Case Study

BubblyNet.
human-centric building control

California State University Northridge - Northridge, CA

The Challenge

California State University, Northridge (CSUN) sought to improve the energy efficiency of Lilac Hall without disrupting operations or investing in new hardware. Despite having modern HVAC equipment in place, the building faced inefficiencies tied to static system schedules and underutilized occupancy data. Rising energy costs and the university's sustainability commitments added urgency to find a smarter, cost-effective solution that could integrate with existing infrastructure.

The Solution

BubblyNet deployed a software-only solution that leveraged Lilac Hall's existing networked lighting controls to drive real-time HVAC optimization. Integrated seamlessly with the building's BACnet-enabled management system, the platform dynamically adjusted airflow and temperature based on actual occupancy. This approach delivered immediate results—cutting electricity use by 15.1%, natural gas by 35.6%, and achieving a 288% ROI with a three-month payback—without requiring any new hardware or construction.