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Interior LED Retrofit With Fixture-Integrated Dimming Sensors

Case Study

 **Stockton, California**
430K sq. ft. Medical Center



Initial Project + Challenges

St. Joseph's Medical Center in Stockton, California, is part of CommonSpirit Health, one of the largest nonprofit health systems in the United States. As part of a broader effort to improve energy efficiency across its facilities, CommonSpirit Health partnered with Earth Savers Energy Services, a subsidiary of EMC, to complete a comprehensive lighting retrofit at the 430,000-square-foot medical center.

Operating around the clock, St. Joseph's required reliable lighting throughout patient rooms, nurse stations, offices, utility areas and other spaces. The existing system included traditional troffer fixtures and CFL lamps that consumed more energy and offered limited ability to adjust lighting based on occupancy.

The goal was to reduce energy consumption while maintaining consistent, comfortable illumination throughout the medical center.



430K sq. ft.
Medical Center Upgraded



1.98M kWh
Annual Energy Savings



\$481,832
Annual Energy Cost Savings



40%+
Reduction in Annual Lighting
Energy Consumption



Solutions + Results

The project team retrofitted existing troffer lighting with programmable LED fixtures featuring integrated dimming and occupancy sensors. The sensors automatically provided appropriate illumination when spaces were occupied and dimmed fixtures when areas became unoccupied, reducing unnecessary energy use.

By combining energy-efficient LED technology with intelligent lighting controls, St. Joseph's reduced its annual lighting energy consumption by more than 40%.

The project delivered **1,987,801 kWh in annual energy savings**, resulting in approximately **\$481,832 in annual energy cost savings**.



Before



After



Before



After



Before



After