

# MedPlex Outpatient Surgical Center

## Case Study



## MedPlex Outpatient Surgery Center Experiences Significant Savings Due To Efficiency Upgrades

### Challenges:

- Minimal disruption of surgical services
- Varying Occupancy Throughout Day
- Unique Tenant Spaces (Operating Rooms)
- Meeting requirements of various physicians

Post-Anesthesia Care Unit Before



After



Operating room Before



After



### Background

The MedPlex Outpatient Surgical Center is a facility managed by United Surgical Partners International (USPI). USPI partners with prominent physicians, leading health systems and imaging centers throughout the United States. Their strategy is to enable their partners and other aligned constituents to benefit from high-quality, lower-cost surgical settings. SEA was tasked with evaluating the Birmingham, AL facility and developing an energy strategy to improve the performance of the building operations systems.

### Solution

SEA began by developing an initial energy baseline for pre and post-construction. The baseline will let USPI know how their building compares to similar buildings, what potential savings are available and whether energy efficient improvements can have a positive effect.

Our strategy involved auditing the current energy output; making a plan for upgrades and implementing retrofits and changes. Some examples of implemented actions are listed below:

#### Lighting:

- Upgrade current fluorescent/incandescent systems and installation of new controls system
- Upgrade of exterior HID lighting system and reduce burn time from 24 hours/day to 10-12 hours/day
- Removal of any unnecessary lighting systems

#### Controls:

- Installation of new energy management system to provide integrated and internet accessible control to all mechanical equipment

#### Envelope:

- Implemented low/cost no/cost solution of installing acrylic panes to interior side of windows to reduce energy consumption and improve temperature conditions in lobby
- Insulated walls in administrative and lobby areas

### Results

- Improved visibility during surgical procedures
- Increase of comfort for patients in waiting area and recovery rooms
- Improved temperature conditions and reduction in energy consumption

MONTHLY ENERGY REDUCTION (ELECTRICITY AND NATURAL GAS)

