



# Medplex Outpatient Surgical Center

## Energy Assessments and Master Planning

### About the Facility:

The MedPlex Outpatient Surgical Center is a facility managed by United Surgical Partners International (USPI). USPI partners with prominent physicians to provide high-quality, lower-cost surgical settings.

Sain Engineering Associates (SEA) was tasked with evaluating the Birmingham, AL facility and developing an energy strategy to improve the overall performance of the building operation systems. While doing this, SEA needed to provide minimal disruption to surgical services and work to meet the physicians unique requirements for varying surgical suites and operating rooms.

### Scope of Work

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 and what potential savings are available when making energy efficient improvements.

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

#### Lighting

- Upgraded current fluorescent/incandescent systems and installation of new controls systems
- Upgraded exterior HID lighting system and reduced burn time from 24 hours/day to 10-12 hours/day
- Removed unnecessary lighting systems

#### Controls

- Installed new energy management system to provide integrated and internet accessible controls of all mechanical equipment

#### Envelope

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

**SEA helped MedPlex Outpatient Surgical Center reduce energy costs by more than \$44k and energy usage by 47%.**

### Results

This resulted in improved visibility during surgical procedures, increased comfort to patients in waiting areas and recovery rooms, and overall improved temperature conditions for reduced energy consumption.

### Point of Contact

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