

# Berkely County YMCA of Moncks Corner, South Carolina



## OVERVIEW

Berkeley County YMCA of Moncks Corner, South Carolina sought to substantially reduce energy and maintenance expenses for their antiquated fluorescent and metal halide lighting system. Further, there was a need to increase lighting levels in key areas of safety concern for members—swimming pool, racquetball courts, weight room and aerobic/yoga studio. Finally, they needed to upgrade exterior signage and security lighting to make the building safer for members in hours of darkness.

## CHALLENGE

- Improve low light levels in key safety concern areas: pool, racquetball courts, weight lifting room and aerobic/yoga studio
- Increase light levels for facility signage and security areas
- Cut energy consumption by 60%
- Cut maintenance expense by 90%



## SOLUTION

- Complete LED retrofit & replacement of the old fluorescent and metal halide fixtures
- Install high lumen output LED fixtures in the pool, racquetball courts, weight and aerobic rooms
- Replaced low lumen, high energy consuming exterior fixtures with state of the art LED fixtures
- Installed occupancy sensors in low traffic areas thus further reducing energy usage

## RESULT

- Projected energy savings of 73.4%
- Captured utility rebate of \$3,059 to offset capital expense
- Maintenance expense reduced by 100%
- Dramatic illumination improvement, especially in the swimming pool, racquetball court and exercise class areas which will increase safety, acuity and athletic performance
- Simple financial breakeven is projected at 2.1 years
- Virtually eliminated lighting maintenance for the next 5 years

## The Helios Energy Impact

Increased safety for members and a boost for employee morale

Substantial improvement to the overall look and feel of the facility

Estimated annual energy and maintenance savings –  
**\$8,106**

Total 10-year savings –  
**\$81,060**

**93,025.2 lbs.** of annual CO2 eliminated! Equivalent to removing **9** cars from the road per year, or not burning **4,744.8** gallons of gas per year!