

# Liberty National Golf Club Improves Efficiency With LED Lighting

Club sees significant long-term energy usage and maintenance cost reductions



## Customer Profile

Located along the Hudson River in New Jersey, Liberty National Golf Club is one of the elite clubs in the nation, with an 18-hole Championship Golf Course. With state-of-the-art amenities and set against a magnificent New York City skyline backdrop, Liberty National has proudly hosted many notable PGA TOUR events, including THE NORTHERN TRUST in 2009 and 2013, and the 2017 Presidents Cup.

In August 2014, the PGA TOUR engaged Liberty National in an agreement to host as many as 10 tournaments over the next 25 years. As the fourth U.S. golf course to be chosen for the prestigious Presidents Cup, Liberty National has welcomed some of the world's best players in a nationally-celebrated venue, revered by spectators and players alike.

## The Challenge

Built in 2006, Liberty National quickly became one of the most exclusive clubs in the region as its facilities—from the beautifully-designed course to the state-of-the-art clubhouse—are second to none. Shortly after it was established, the Club hosted major events, welcoming an average of 20,000 people and garnering over three million media impressions for any given tournament. When Liberty National was selected in 2014 for the 2017 Presidents Cup, the Club began a series of major upgrades to accommodate the large attendance, TV viewership, and all-around public visibility expected for this milestone PGA TOUR moment.

Given the Club's prominence, a comprehensive energy audit was completed to gauge energy use and needs. Liberty National determined that there was an opportunity to undergo a large-scale lighting overhaul to improve both

energy efficiency and the members' experience as they dine, socialize, and host events in the clubhouse.

With a targeted completion date of early September 2017, the capital-intensive requirements of overhauling the lighting system posed a significant challenge. It was clear that the Club required an energy services provider that could ensure that a new design-build solution would fit their energy needs, budget and timing.

Liberty National selected Constellation as its energy provider, based on Constellation's design-build expertise and contract solution to fit the Club's unique financial and operational needs. A sponsor of the PGA of America's sustainability efforts with an extensive track record of executing energy efficient lighting programs, Constellation was the best fit to take on Liberty National's lighting upgrade.



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## The Solution

As the PGA of America's Official Energy Provider and Sustainability Partner since 2016, Constellation's efficiency experts knew they could improve older technologies with modern upgrades to match the venue's superior expectations. Liberty National engaged Constellation's alliance partner Energy Conservation & Supply Global (ECS Global) to audit its facilities and build a turnkey lighting proposal funded through Constellation's award-winning Efficiency Made Easy® (EME) program. The result was that the Club was provided with a retrofit of interior and exterior lighting fixtures entirely funded through the EME program with no upfront capital required.

For Liberty National, this meant they could prioritize time and resources to other improvements needed at the Club to ensure the course was ready to host future tournaments. With the associated costs of the project already included in their electricity bill and spread out over the term of their energy contract with Constellation, Liberty National will be able to continue to install the solutions their facility needs while significantly reducing associated maintenance costs.

## The Results

Working closely with leading energy intelligence lighting specialists ECS Global and coordinating with the Liberty National Golf Club operations team, Constellation implemented system improvements and LED upgrades that were completed in time for the 2017 Presidents Cup.

The efficiency improvements administered through Constellation's EME program will provide the Club with lighting fixtures that will benefit the golf course's facilities and clientele with improved atmosphere and experience for members and guests.

Liberty National serves as an excellent example of how Constellation's EME program provides facilities with customizable upgrades and energy management tools that have the potential to cut energy costs and improve day-to-day operations. Whether or not your Club hosts a PGA TOUR event, Constellation's EME solutions can help you realize cost savings through a reduction in consumption and an improved load profile, freeing up capital to support your Club's commitment to members and guests. Moreover, as the Official Energy Provider and Sustainability Partner of the PGA of America, Constellation continues to exemplify why they are the premier choice for actionable strategies and energy management programs that match the PGA of America's commitment to sustainability.

### Highlights

- LED lighting system reduced consumption by 50%
- Estimated annual energy savings of over \$135,000
- Additional annual savings on maintenance due to new equipment that has longer life cycles and newer warranties
- Energy savings expected to reduce annual electric usage by 253,872 kWh

### Technical Highlights

- Retrofit for interior and exterior lighting fixtures for almost 1,300 state-of-the-art, energy efficient LED lamps
- No upfront capital expenditure
- Monthly EME payments offset by significant savings on bill from lowered kWh electric usage rate
- Better operational control of the systems as a result of the program

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