



RECREATIONAL FACILITY

**BIG SHINE
ENERGY**
LED LIGHTING CASE STUDY

NC VOLLEYBALL ACADEMY

DURHAM, **NORTH CAROLINA**

MAKING AN IMPACT

As a non-profit organization, NC Volleyball Academy aims to build its athletes with the skills needed in volleyball while keeping the love for the game alive in their hearts. With a mission to make an impact through education, NC Volleyball is known as the top academy in the Durham area.

In 2011, when they acquired their own facility, it was a home to 119 metal halides throughout the 40,000 sq. ft. academy. The efficiency of metal halides depreciates as soon as they are put to use, so the new property required an upgrade to lasting and efficient LED lighting. The benefits offered both savings and a better quality of lighting.

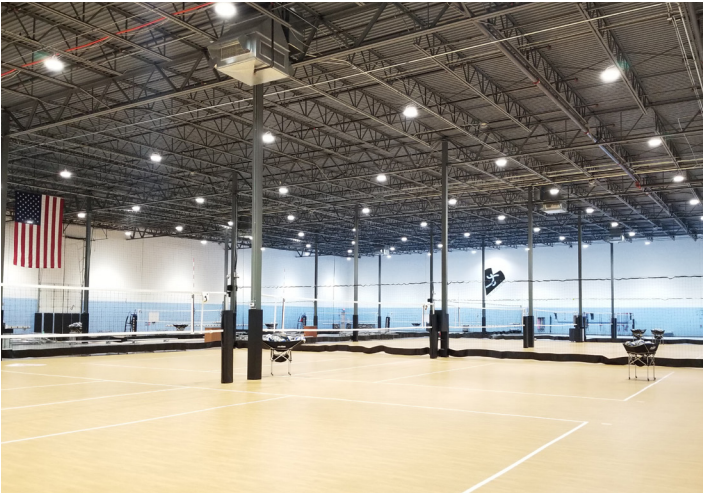
A CHANGE FOR THE BETTER

When Big Shine Energy approached NC Volleyball Academy, a complete photometric layout of their facility was created to assess the best solution to maximize savings while increasing foot-candles for practices and games. The proposed solution allowed them to not only retrofit their existing high bays, but even reduce the total number of fixtures with Big Shine LED's 200W Luna that offers an efficacy of 150 lm/W. With this solution, they increased their level of light while getting rid of the unnecessary energy consumption.

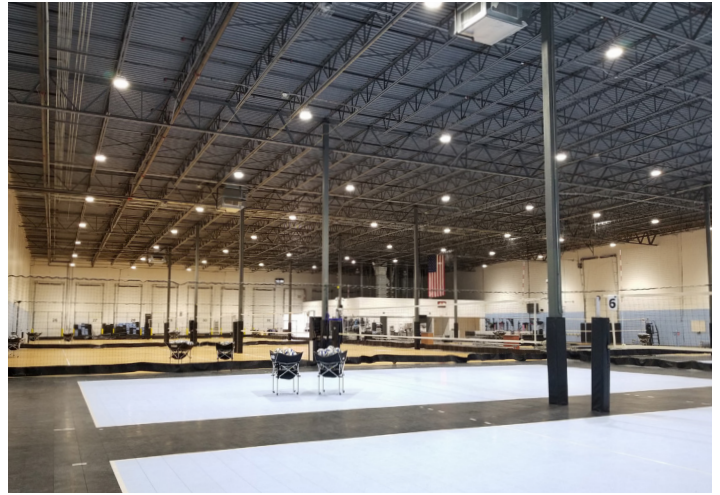
BRIGHT RESULTS

With such a great opportunity for savings, Duke Energy provided \$15,946 in rebates, paying for nearly half of their fixtures. As they look forward to the success of their new facility, they can also look forward to saving 131,910 kWh annually, which translates to \$15,191 every year. Now they can be proud of serving not only their community, but the environment as well, by participating in the Approaching Zero carbon emissions movement.

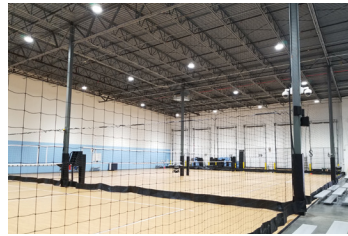
Find out how Big Shine Energy can help your business cut costs, save energy and help the environment.



NC Volleyball Academy's courts are now brightly lit, ready for training.



Luna High Bays fill the courts with an even, high-CRI illumination, comfortable on the eyes.



THE LIGHTS



Luna
200W



Satellite HD
80W

THE NUMBERS

ANNUAL SAVINGS



\$15,191

SAVED IN
ENERGY COSTS



131,910

KWH SAVED

ENVIRONMENTAL IMPACT



98.2

TONS OF
CO₂ EMISSIONS
REMOVED



21

CARS REMOVED
FROM THE
ROAD



116

ACRES OF
U.S. FORESTS
PLANTED