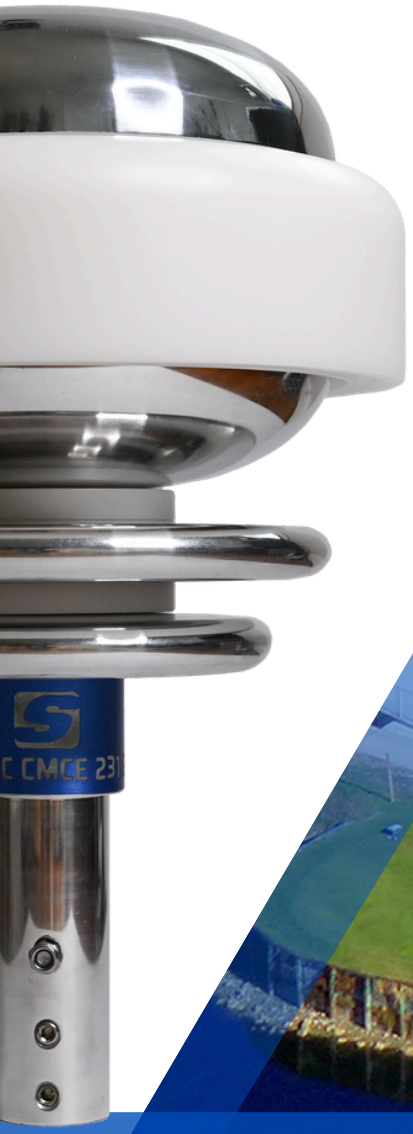
ENCORE
LAND AND SEA





## SIX LAKES COUNTRY CLUB

# CASE STUDY

CMCE LIGHTNING SUPPRESSION SYSTEM

# CASE STUDY

## Replacing Conventional Lightning Rods with CMCE Lightning Suppression Following $144,000 in Lightning Damage

Six Lakes Country Club – North Fort Myers, Florida

### The Challenge: Three Lightning Incidents in Three Months

Located in North Fort Myers, Florida, Six Lakes Country Club is a premier 55+ residential golf community featuring an 18-hole executive golf course, clubhouse, restaurant, swimming pool, fitness center, and numerous recreational amenities. With approximately 594 residences and a vibrant community atmosphere, Six Lakes provides residents with an exceptional country club lifestyle.

However, its Southwest Florida location also presents a significant challenge: frequent thunderstorms and lightning activity.

Florida is recognized as one of the most lightning-prone states in the country, with Southwest Florida experiencing frequent thunderstorms, particularly during the summer months. For country clubs and golf communities, expansive open spaces, outdoor recreational facilities, and sensitive electrical infrastructure create additional lightning-related risks.

Between July and September 2024, Six Lakes Country Club experienced three lightning-related incidents, resulting in extensive damage to critical equipment and costly repairs.

Despite having a conventional lightning rod protection system installed, the property continued experiencing lightning-related electrical damage. Concerns about the existing system's grounding and ability to manage high electrical voltages prompted management to seek an alternative solution.

### The Damage: $144,000 in Three Months

The three lightning incidents resulted in significant financial losses and damage to essential infrastructure:

- **Fire Alarm Panel** – $14,000 in Damage: Lightning-related electrical damage destroyed the clubhouse's fire alarm panel, compromising a critical life-safety system and requiring costly replacement.
- **Lift Station** – $40,000 in Damage: A lightning incident damaged the property's lift station equipment, creating expensive repairs and potential operational disruptions.
- **Grinding Unit** – $90,000 in Damage: The most expensive incident damaged the property's grinding equipment, resulting in approximately $90,000 in losses.

**Total Lightning-Related Damage: $144,000**

# CASE STUDY

These incidents demonstrated the financial consequences of lightning-related electrical damage and raised concerns about the effectiveness of the property's existing lightning protection strategy.

Although conventional lightning rod systems are designed to intercept strikes and conduct lightning currents toward the ground, they cannot eliminate all lightning-related risks, particularly those involving inadequate grounding, electrical surges, and sensitive equipment.

For Six Lakes Country Club, continuing to rely on its existing system was no longer the preferred option.

## The Solution: CMCE Lightning Suppression

Following three costly lightning incidents, Six Lakes Country Club contacted Encore Land and Sea to upgrade its lightning protection strategy with advanced CMCE Lightning Suppression technology.

Unlike conventional lightning rods, which are designed to intercept lightning strikes, CMCE Lightning Suppression is designed to reduce the likelihood of direct lightning attachment by balancing atmospheric electrical conditions and preventing the formation of upward streamers.

Encore Land and Sea installed:

- One CMCE-120 Lightning Suppressor
- One CMCE-55 Lightning Suppressor
- Approximately 600,000 Square Feet of Designed Coverage

The two systems were strategically installed to provide lightning suppression coverage across the clubhouse property and surrounding designated areas.

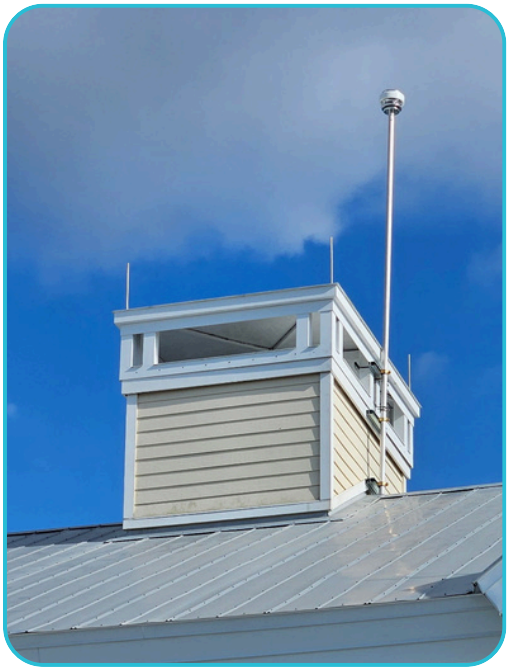
By transitioning away from its previous conventional lightning rod arrangement, Six Lakes Country Club invested in a proactive lightning risk mitigation approach intended to significantly reduce the potential for direct lightning strikes and associated equipment damage.

CMCE technology also offers a passive, low-maintenance solution, making it an attractive option for country clubs, residential communities, and facilities seeking long-term lightning risk management.

# CASE STUDY

## The Results: Protecting the Clubhouse and Critical Infrastructure

With one CMCE-120 and one CMCE-55 Lightning Suppressor installed, Six Lakes Country Club now has approximately 600,000 square feet of designed lightning suppression coverage encompassing its clubhouse property.



The installation represents a significant investment in protecting the community's facilities, critical electrical infrastructure, and operations against future lightning-related risks.

After experiencing $144,000 in damage in just three months, Six Lakes Country Club recognized the importance of reassessing its existing protection strategy and investing in an alternative designed to reduce direct lightning strike exposure.

## Project Highlights

**Location**: North Fort Myers, Florida
**Property**: Six Lakes Country Club
**Previous Protection**: Conventional Lightning Rod System
**Lightning Incidents**: 3 (July–September 2024)
**Total Reported Damage**: $144,000
**CMCE Installation**: 1 CMCE-120 + 1 CMCE-55
**Designed Coverage**: Approximately 600,000 Square Feet
**Protected Area**: Clubhouse Property

