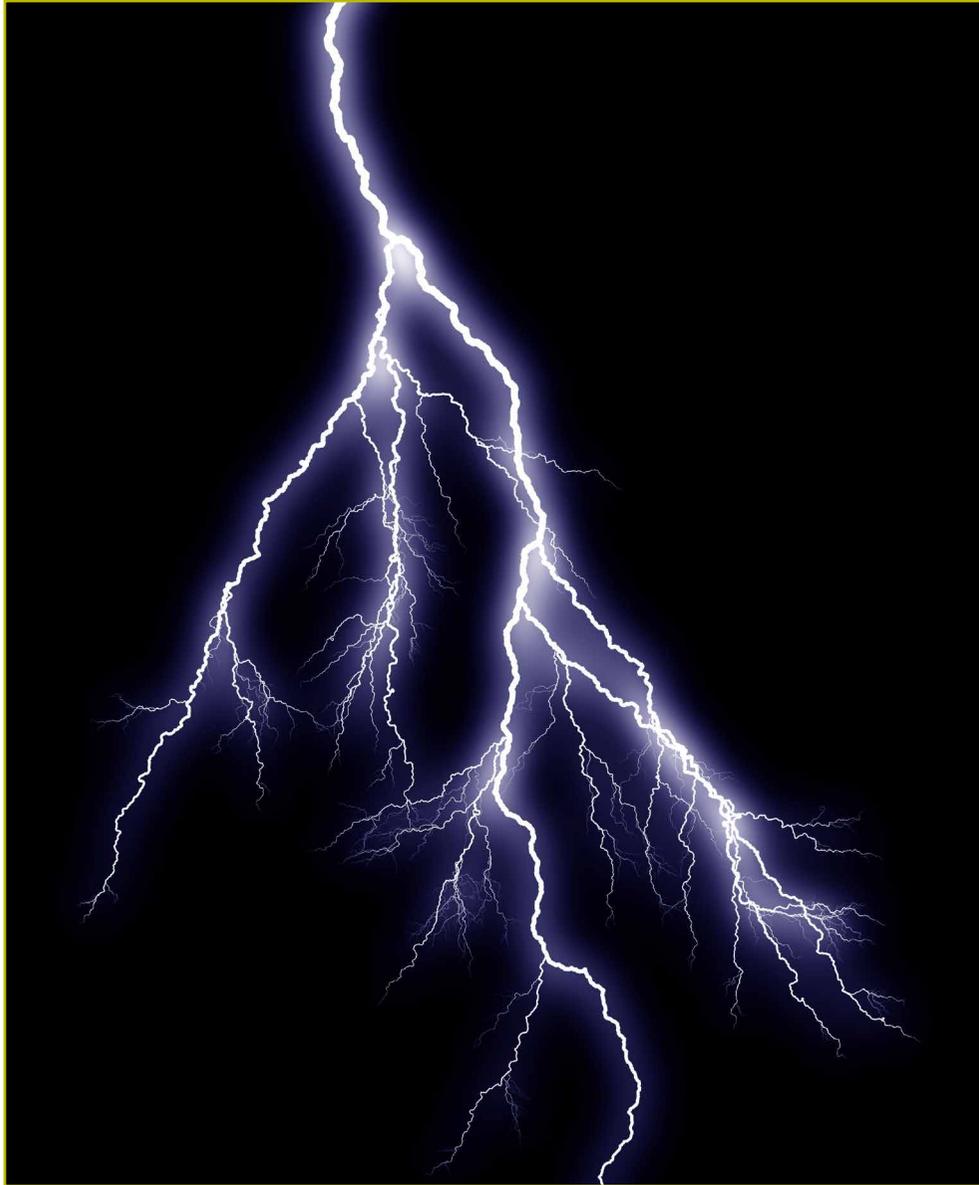




## PTSG takes centre court at The Queen's Club



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PTSG began its relationship with the prestigious Queen's Club in 2011, when it was commissioned to design and install the site's early stream emission (ESE) lightning protection system. Following a successful delivery, the Group's electrical services division has returned annually to provide servicing and maintenance to the system, and in early 2017 was commissioned to provide a complete upgrade.

The Queen's Club is a world-class, multipurpose sports complex, acclaimed for its facilities. It currently hosts the Aegon Championships, World Rackets Championships and the British Open. The clubhouse is renowned for its corporate hospitality and excellent views of the courts.

To accommodate the 2017 Aegon Championships, the Club will be increasing its capacity by more than 2,000 seats, with additional seating and standing areas being installed to take its total capacity to almost 9,000. As a result, PTSG was required to upgrade the current ESE system to extend it and meet current safety requirements.

The electrical services division also provides a yearly service to the Club's lightning protection units. This involves testing and commissioning the ESE systems to ensure they are compliant with both BS EN 62305 and the French NFC17-102 standards. Supporting brackets to the building's masts are changed regularly, and the masts themselves are safety-checked annually.

Installation of the ESE units required a unique design to incorporate the various buildings including the iconic clubhouse, which houses a host of luxury facilities for members and athletes. Particular importance was placed on fixing and securing the masts, which are 6m in height, and need to be safely secured to prevent loosening. Due to the open-plan layout of the site, the masts can be exposed to winds of up to 90mph and it is essential that the fixings are safely mounted. A range of fixings are used on this project, from chemical resins to traditional raw bolts, depending on the material being mounted.

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PTSG's design team adopted a cautious approach to this project, taking into account the aesthetics of this historic and prestigious sporting arena, creating a solution that is discreet and complementary of the traditional style of the clubhouse building. The ESE units have been carefully installed to avoid hindering spectators' views, and are designed to suit the architecture and character of this illustrious institution.

Safety of the spectators is of paramount importance, and PTSG pulls out all stops to ensure the system is designed to the highest British Standards, BS EN 62305. Maintenance work is carefully planned around the sporting calendar, with PTSG's engineers attending in advance of any of the most high-profile events.

Thanks to the care and attention of the electrical services team, PTSG has maintained an excellent relationship with the Queen's Club, which has developed into an ongoing partnership. Following the successful upgrade of the site's systems, the Group's engineers will be familiar faces at the club for years to follow.

