

# Rooftop ice and snow melting at the LG Arena

# HEATCOM

SMART HEATING SOLUTIONS



Advanced  
ice & snow systems



2000m<sup>2</sup> of roof  
covered



Fully programmable  
thermostats



### The Goal

The NEC Group wished to suspend additional audio visual equipment from the roof of the LG Arena, however this was not possible without strengthening the roof as the current structure did not have enough spare holding capacity. The goal was to find a way to increase the load the roof could carry, without the costly and disruptive work of strengthening the roof.

### Heatcom's Solution via Heat Mat

Installing one of Heatcom's roof protection Ice and Snow melting systems ensured that the roof area would not experience a buildup of heavy ice and snow.

By ensuring that the possibility of significant snow buildup was excluded, this freed up additional load carrying capacity with the roof structure as it was no longer required for potential snow drifts.

This allowed additional audio visual equipment to be suspended from the roof without the requirement to strengthen the structure.

significant size of the flat roof specialist cables were manufactured to match the exact requirements onsite and Heat Mat's experts worked with The NEC Group to ensure that the specialist system fixing the cables to the roof was compatible with the roof surface, whilst also allowing for future maintenance of the roof if required.

### About Heatcom

At Heatcom, we are specialists in electric heating solutions for indoor and outdoor environments.

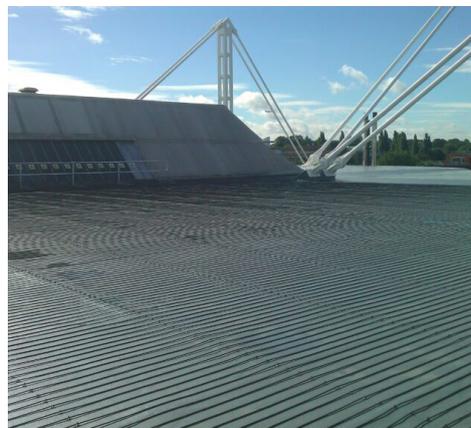
Founded in Denmark, we deliver high-quality, energy-efficient, and easy-to-install systems to customers around the world. Our product range includes underfloor heating, ice and snow melting

A fully automated timer/thermostat system was installed to automatically control the system ensuring it only operated when necessary to maximise energy efficiency; the system is expected to cost no more than £1,000 to run even in a snowy winter.

### The Result

Heatcom commissioned the system during 2023 confirming that it was operating as designed allowing the copper shingles to heat up to 25°C above ambient.

The system operated without problems through the winter of 2023/24 when the centre Due to the



### Project in detail

#### Date Installed

2012

#### Location

LG Arena, Birmingham, UK

#### Client

The NEC Group

#### System supplied through

Leeds Based Electrical Wholesaler

#### Installer

Heatcom specialist installation partner

### System Specifications

- 12km of specialist UV stable ice and snow melting cable
- Proprietary roof fixings and specialist adhesives
- Automatic monitoring and control equipment including temperature and moisture sensors

### About Lee Vally Ice Centre

The NEC Group is a Birmingham based venue management company that operates four world-class venues: the National Exhibition Centre, the International Convention Centre, the LG Arena and the National Indoor Arena.

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