

# Pool Ventilation – Balancing Net Zero and Covid Considerations

**Tomas Neeson**

*Partner, Cundall*



Tomás Neeson is a Partner at Cundall, and Mechanical & Electrical engineer with 30 years of experience in the built environment. His design and delivery experience covers all types of sports and leisure facilities including many swimming pool projects. Common to all projects Tomás has been involved in, is the commitment to make better spaces for inhabitants, and minimising the impact we have on our planet for our future generations. Tomás has also lectured on environmental design for Newcastle University Architecture degree courses.

**Kevin Hannah**

*Associate Director, Cundall*

Kevin Hannah is an Associate Director at Cundall, with over 30 years experience in the delivery of mechanical engineering services design for a wide range of buildings. Kevin has particular experience in the design of Sports facilities, having delivered in excess of 20 swimming pools, ranging from domestic and hotel pools, through Leisure Waters, Community Pools and 50m Competition Pools, encompassing new build and refurbishment projects.



## **Presentation Abstract**

The impact of Covid-19 on the Built Environment, and its implications for the occupation and operation of buildings of all types has placed a spotlight on the ventilation of buildings and guidance published by HSE and CIBSE has led to a review of ventilation design criteria. Building owners and operators are assessing how existing ventilation systems operate and, if necessary, can be adapted to introduce additional safeguards for occupants. Building designers are considering how the design of future systems can be improved.

In this presentation, we will discuss if, and how, this might impact the design of swimming pool ventilation systems, considering design criteria and sizing, system configurations including heat recovery methods and air delivery and distribution.

The global challenge of reducing the carbon footprint of the built environment, and the push towards net zero carbon buildings has also become a significant driver for change within the industry. We will discuss how this might be balanced against Covid ventilation requirements, and further consider the approach that might be taken to apply the net zero challenge facing us all, to buildings that are traditionally high consumers of energy.