



Case Study

Grand Central Apartments



Overview

Grand Central Apartments is a residential tower offering 68 one, two and three-bedroom apartments and stunning penthouses coming in London's vibrant King's Cross district.

Designed by award-winning architects Stiff + Trevillion and inspired by the linear forms and materials of the railway, this is a building that captures the area's forward-looking spirit and iconic industrial past.

The Challenge

The project was developed as part of Camden's Community Investment Programme (CIP), which encompasses a series of land and property transactions that have secured funding for housing and educational facilities.

As a condition of the planning approval granted by the local council, the project was required to provide real-time alerts to both tenants and management regarding potential high-level pollution events.

The Solution

EarthSense was commissioned to install Zephyr® monitors at various locations around the building. These monitors, equipped with an

active sampling mechanism, drew local air into their inlets, measure air quality, and then release the air back into the environment.

The Zephyr® monitors provided real-time measurements of PM10, PM2.5, NO, and NO2, offering insights into their impact on air quality levels around the site. The data collected by the Zephyr® monitors was automatically transmitted to the EarthSense MyAir® web application.

This platform allowed the managing agent, Rendall and Rittner, to access, analyse, and download the measured air quality data. Additionally, MyAir® was utilized to send SMS alerts to ensure that air quality remained within acceptable limits, thereby protecting residents from dangerous exposure.



Outcomes

Knowledge of the air quality around the building allowed residents to take proactive measures to improve their health and well-being.

By understanding the pollution levels in their immediate environment, residents could make informed decisions such as avoiding outdoor activities during high pollution periods, using air purifiers indoors, and advocating for cleaner air initiatives.

This increased awareness and proactive behaviour contributed to a healthier living environment and enhanced overall quality of life.

Long Term Benefits

In the long term, the project has the potential to save lives and reduce healthcare costs. With fewer people suffering from preventable diseases related to poor air quality, such as asthma, respiratory infections, and cardiovascular conditions, there will be a decrease in hospital admissions and medical treatments.

This not only improves the health outcomes for individuals but also alleviates the burden on the healthcare system, leading to significant cost savings.



Quotes

Residents and stakeholders:

"Knowing the air quality around our building has empowered us to make healthier choices for our family."

"The real-time data has been a game-changer in how we approach our daily routines and outdoor activities."

The Future

The project aims to continue providing valuable insights into localized air quality for the benefit of tenants and could include:

- Extending the monitoring to more buildings and areas to gather comprehensive data.
- Increasing community involvement through workshops, seminars, and awareness campaigns to educate residents about air quality and health.
- Using the collected data to advocate for policies and initiatives that promote cleaner air and healthier living environments.
- Partnering with local authorities, health organizations, and environmental groups to amplify the impact of the project and share best practices.

Get in Touch

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