

Reliance Chemical Products Ltd. chooses Oizom to achieve operational excellence with an advanced air monitoring system

Our Client

Cambrian Engineering Corporation Pte. Ltd. is an established company in Singapore. They specialize in geotechnical engineering, geophysical surveys, ground-penetrating radar survey, utility survey, trial trenching, and specialist applications. Meanwhile, Cambrian Engineering Corporation's client is Chan & Chan Engineering Pte. Ltd. (CCE). They are a civil engineering and building contractor in Singapore. They provide civil engineering, building, marine works, and construction services.



The Challenge

RCPL encountered significant challenges with poor air quality within its facilities, adversely affecting worker health and leading to operational efficiency. The poor air environment not only put the health of the employees at risk but also led to a decrease in work productivity. The company urgently needed a solution to monitor harmful gases, specifically sulfur dioxide (SO₂) and methane (CH₄), to ensure a safer working environment. They required a monitoring tool that could:

- Continuously monitor SO₂ and CH₄
- Display an accurate reading of each component
- Withstanding the high-temperature conditions prevalent in their manufacturing processes.

The Solution

After deep evaluation and investigation we implemented a trial of the Polludrone Pro for two weeks to address their specific needs. This advanced monitoring instrument was selected for its capability to continuously and accurately detect the levels of SO₂ and CH₄, even in the challenging high-temperature conditions of RCPL's operations. Our device comes equipped with the Envizom software, an advanced data analytics module. It allows the user to generate customized pollution rose charts which helps to identify the sources as well as assessing the direction of air pollution dispersion.

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Oizom must continue to innovate and develop advanced technologies to enhance environmental monitoring and sustainability efforts further.

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Installation Details

Polludrone Pro in the Reliance Chemical Products Ltd. for real-time air quality monitoring

The Result

The introduction of the Polludrone Pro significantly enhanced RCPL's ability to manage air quality effectively. By accurately monitoring harmful gas levels, RCPL could not only comply with environmental regulations but also take proactive steps to ensure the safety and well-being of their workforce. This strategic approach to air quality management underscored RCPL's commitment to sustainable and responsible industrial practices, ultimately contributing to a healthier workplace and improved operational efficiency.

By displaying real-time air quality data, including SO₂ and CH₄, in the envizom software, the Polludrone system ensures its workers and nearby residents breathe clean air within safe limits, safeguarding their health and well-being. Its robust and compact design enables reliable operation even in harsh weather conditions, requiring minimal space for installation. It can keep track of the historical data and trends of the air pollutants emitting from chemical manufacturing companies.

Oizom is a company specialising in environmental monitoring solutions. They offer products to monitor air quality, weather conditions, and other environmental factors. Utilising advanced sensor technology and data analytics, Oizom aims to provide actionable insights for construction, industrial compliance, and community awareness. Their solutions can be applied in various sectors including government, industries, and community initiatives.