

# Oizom continuously monitors air quality at the mining site in Umnu Gobi province, Mongolia.

## *Our Client*

Our client offers various services in the mining industry and construction. These include mining engineering, project designing and development, construction, operations, and maintenance. Their goal is to help companies improve their projects at any development phase. They are committed to providing the highest quality services possible and are dedicated to maintaining the environment as well as the safety of their miners.



## *The Challenge*

While working at the Umnu Gobi province, Mongolia mining site, they faced several challenges regarding poor air quality. Harsh mining environments can generate harmful dust and expose miners to pollutants like sulfur dioxide (SO<sub>2</sub>), nitrogen dioxide (NO<sub>2</sub>), etc. These pollutants can lead to serious health problems, including respiratory illnesses. They needed a solution that could help them monitor a wide range of pollutants such as SO<sub>2</sub>, NO<sub>2</sub>, CO, NO, and O<sub>3</sub> with dust, temperature, humidity, wind speed and direction, rain, and noise. They required a device that could provide accurate and reliable data in less than -40 degrees temperature with real-time analysis and withstand the extreme weather conditions in the mining zone.

## Installation Details

2 units of Polludrone and 1 unit of Dustroid have been installed at site.

## The Solution

We analyzed their challenges and provided the ideal solutions: Polludrone and Dustroid. They installed two units of Polludrone and one unit of Dustroid to monitor all the pollutants effectively. The Oizom device customization option helped them meet their specific air quality monitoring needs. Our flexible and robust environmental monitoring solutions help them effectively monitor air quality at the mining site and operate responsibly. Our weatherproof air quality monitors can withstand the extreme environmental conditions of the mining site and deliver accurate data at a temperature of less than -40 degrees in Umnu Gobi province.

## The Result

Implementing Oizom's environmental monitoring system has resulted in several positive outcomes for the client. Real-time data allows the client to address potential environmental concerns and ensure compliance with regulations proactively. By monitoring harmful pollutants, they can now identify and address air quality issues, which can also benefit workers' health and well-being. They expressed satisfaction with Oizom's effective after-installation service, ensuring minimal downtime and continuous operation of their monitoring systems.



Oizom is an environmental IoT company offering data-driven environmental solutions for better decision making. With our sensor-based hardware, we monitor various environmental parameters like air quality, noise, odour, radiation, weather conditions, etc. Our data analytics platform derives many actionable insights for authorities, communities, and industries. Oizom strives to play an essential role in a sustainable future through smart environmental solutions and data science.