

Monitoring Essential Parameters to Maintain Air Quality in Galena Park

Our Client

Galena Park is a city in Harris County, Texas, part of the expansive Houston–Sugar Land–Baytown metropolitan area. It has a rich history with refineries. The town itself was named after a refinery company, the Galena Signal Oil Company of Texas, which built the first refinery there. Currently, there are significant terminal facilities that store and handle various products, including refined petroleum products, crude oil, and blend stocks.



The Challenge

Handling and storing refined petroleum products and crude oil were contributing in polluting the city's environment. Recognizing the potential health risks posed by their industrial neighbors, Galena Park required an efficient solution to monitor and manage air quality. Their primary concern was the safety and well-being of its residents. They required a reliable, easy-to-install solution that could withstand humid subtropical climates and provide accurate data. The situation demanded real-time monitoring capabilities to enable immediate action when necessary.

The Solution

With our partner Intecon, we offered them Oizom's Polludrone with the required customizations for their air quality monitoring requirements. Their decision to choose Oizom was influenced by the positive experiences of other municipalities and industrial sites using Oizom's solutions. Four devices were strategically installed around the city to provide comprehensive data. Polludrone offers higher data accuracy and real-time environment monitoring, covering all essential air quality parameters like Particulate matter of various sizes, CO₂, CO, SO₂, NO, NO₂, O₃, and H₂S.

With Oizom, they got a reliable environment monitoring solution that ensures thorough monitoring without compromising the accuracy of the data. The real-time data transfer feature was crucial for enabling quick responses to any air quality concerns.



Installation Details

4 Unit of
Polludrone Pro

The Result

Since installing the Polludrone devices, Galena Park's feedback has been overwhelmingly positive. Using our software Envizom, they get a data analytics feature with smart alerts, automated reports, and display to monitor the city's air quality effectively. It also helps them with real-time monitoring of all the essential parameters with wind speed/direction and rainfall. It also eases the process of real-time data transfer, allowing city officials to respond promptly to air quality issues. The community has benefited from increased awareness and reassurance about the air it breathes.

The success of this project has led Galena Park to consider deploying odosense devices, which will aid them in detecting odor and managing the industrial odor that has an impact on the city's environment. This proactive approach is a testament to the city's commitment to protecting its residents and maintaining a healthy environment.

Oizom is a company specializing in environmental monitoring solutions. They offer products to monitor air quality, weather conditions, and other environmental factors. Utilizing 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.