

Motorola GP328 Plus: Communication – Fuelling the Economy



Refined Communications for a Better Refinery

The petroleum refining industry in Korea provides for both the domestic and foreign market, particularly to foreign ships, commercial airlines and the U.S. military in Korea.

With constant tight production deadlines, seamless and efficient communication is crucial to the industry, from the workers in the quays to those involved in the refining process.

As Korea's leading refinery company, LG-Caltex Oil felt that a better communications system would increase its market leadership even further. The company had a satisfactory experience with the Motorola Visar™ portable radio, and was eager to try out the GP328 Plus, Motorola's smallest professional radio.

LG-Caltex Oil needed the GP328 Plus to possess the following attributes:

- Intrinsically safe communications equipment for maximum safety.
- Compact and lightweight for carrying over extended period of time.
- Clear audio quality and handsfree ability for convenient, rapid communication.
- Extensive coverage across a wide area, with the option of one-to-one or one-to-many calls.

"We enjoyed a big change to our working environment the moment we set up the two-way radio system.

With over 20 buildings and thousands of employees, our factory is huge.

Efficient communication is key for us to ensure that process flows smoothly and productivity is increased."

Employee, LG-Caltex Oil

Factory Mutual-compliant for Maximal Safety

Safety is a key concern for any chemical company dealing with dangerous and flammable substances. Motorola GP328 Plus portables are intrinsically safe for use in hazardous classified locations which are approved and certified by Factory Mutual (FM) Research Corporation.

Light and Comfortable

Weighing less than 500g and being Motorola's smallest professional radio, the GP328 Plus is a great tool to carry around all day. Long shifts' workers can comfortably carry one radio and one battery to meet the communication needs in an 8-hour shift.

Clear Audio Quality and Handsfree Capability

There is no room for errors in the noisy and high-risk refining industry. Therefore, the crystal-clear audio quality of the Motorola GP328 Plus addresses a key need in LG-Caltex Oil's operations. Coupled with lightweight hearing accessories that fit the ear so comfortably that the refinery workers hardly know it is there. The ability to keep their hands free whilst talking is also a great boost to productivity. The radio's built-in VOX function also allows them to keep communicating without missing a beat.

Large Grounds Requires Extensive Coverage

It is critical to maintain communications between the storage area and the headquarters, and the long range is not a problem for the Motorola GP328 Plus. As the largest refinery company in the country, LG-Caltex Oil has one of the most extensive plants in terms of size. Just the storage facilities alone extend over one kilometre. LG-Caltex Oil was able to use just one repeater to ably support a virtual army of GP328 Plus portables.



The End of the One-Way Road

Prior to adopting Motorola, LG-Caltex Oil used an analog Trunk Radio System (TRS) coupled with a one-way wired paging system. This was extremely inconvenient as workers had to stop whatever they were doing and return the call via a landline. In addition, these pages were 'one-to many', meaning that private communication was not possible. The Motorola GP328 Plus not only supported two-way communication flow, and also offered one-to-one communication.

Great Positive Impact on Operations

An employee from LG-Caltex Oil observed the positive changes brought by the adoption of Motorola technology. "We enjoyed a big change to our working environment the moment we set up the two-way radio system. With over 20 buildings and thousands of employees, our factory is huge. Efficient communication is key for us to ensure that process flows smoothly and productivity is increased."

Convinced!

LG-Caltex Oil was convinced of the efficiency and reliability of the Motorola GP328 Plus. The radio has been instrumental in increasing the company's productivity and ensuring the smooth flow of all their working processes. Workers are less fatigued, thanks to the lightweight radio and accessories, and now move around with ease and efficiency.



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