

# Testimonial: ArcelorMittal

"Deploying multiple Vanguard units around the facility was easy and completed in days and the Vanguard units augmented our gas detection coverage without the hassle of running and maintaining wires."

— **Don Shulock, Process Manager (I&E)**  
**ArcelorMittal**

Please contact [info@ueonline.com](mailto:info@ueonline.com) for more information.

## Customer Profile

Arcelor Mittal is a world leading producer of steel. This particular facility manufactures coke which is used as a fuel in the steel making process. The coke manufacturing process results in numerous by-products such as hydrogen sulfide (H<sub>2</sub>S). H<sub>2</sub>S levels in a facility needs to be monitored closely for personnel protection.

## Challenge faced

Adding new gas measurement points in a brownfield facility can be inconvenient and very costly. Inconveniences and costs includes obtaining 'hot' work permits and running conduits for signal and power wires around assets. Some of these assets are located in hard-to-reach elevated positions.

"We were previously using wired gas detectors to monitor for H<sub>2</sub>S. Power and signal wires to these detectors were getting damaged over time and needed to be replaced," said Shulock. "Since we already had an existing *WirelessHART* infrastructure in place, the Vanguard gas detector was dropped into the mesh network to provide an accurate monitoring point instantly. Deploying multiple Vanguard units around the facility was easy and completed in days and the Vanguard units augmented our gas detection coverage without the hassle of running and maintaining wires."

## Application

Scrubbers are equipment used to remove byproducts (e.g. H<sub>2</sub>S) from gas streams. With its drop-in-network mobility, the placement of Vanguard gas detectors was not constrained

and the devices were deployed right next to scrubbers and other H<sub>2</sub>S containing assets. That way, a leak could be detected immediately before it permeates through the ArcelorMittal facility. Multiple units were deployed throughout the plant to increase monitoring density and provide a robust gas detection envelop against H<sub>2</sub>S leaks.

## Results

"The Vanguard units connected to the *WirelessHART* gateway seamlessly after it was configured onsite. Interoperability with the other *WirelessHART* pressure, temperature and level devices worked great and data was transmitted back to the control room accurately and reliably", said Shulock. "We like the simplicity of the device. Bump testing and calibration was straightforward with the push of the side button. It was also very easy to mount the Vanguard to a beam or wall with its integral mounting bracket. We definitely saved significant installation cost and time by migrating to wireless gas detection technology."

