

# A major U.S. petroleum refinery enhances worker safety while improving operational efficiencies and productivity



## Challenges

Working in remote and rugged conditions is hard enough, but when network connectivity is inconsistent, both worker safety and productivity can be compromised. Like many companies, this U.S.-based fuel refinery became increasingly reliant on connected devices to keep business running smoothly and safely, but poor connectivity often hampered operations. Challenges included:

- Wasting time collecting data from an area with inconsistent Wi-Fi connectivity and then literally running to another area to reconnect and transmit that data; this “workaround” impeded timely, data-driven decision making at the refinery’s remote worksites.
- Ongoing concerns about Wi-Fi “dead spots” increasing operational risk, including workplace safety.
- The need to solve immediate connectivity issues while also finding a trusted partner who could successfully help plan and implement a broader digital transformation strategy.

## Solution

Recognizing the benefits of more reliable network coverage – from powering the advanced solutions that help improve efficiency and workplace safety to enabling the eventual use of more connected devices and technologies – the company chose a Private 5G Network from Verizon.

## Outcomes

With a Private 5G network and managed services provided by Verizon, the company can focus on improving their current and future operations while Verizon manages the network. Outcomes included:

- Increases efficiency and more “time on the job,” thanks to reliable and consistent connectivity for mobile crane operations, phones, tablets, laptops, scanners and other connected devices.
- Enhances worker safety due to consistent connectivity powering cameras and communications devices across the rugged, harsh and unpredictable outdoor environment.
- Enables data collection to inform near real-time decision making anywhere on the property - and not just in the locations where the Wi-Fi signal is strong.
- Control costs and reduce complexity of continuing to scale its Wi-Fi infrastructure, by implementing a fast and ubiquitous Private 5G Network.
- Provides the network foundation to support plans for future innovation, including Automated Guided Vehicles (AGV’s), Computer Vision (CV), sensors and more.

### Learn more

See how Verizon solutions can enable operational efficiencies, productivity and worker safety at [verizon.com/energy](https://www.verizon.com/energy)