WENCO CHOOSES OMNICOMM

4-6 MONTHS
ESTIMATED ROI FOR MINERS
Wenco International Mining Systems Ltd. is one of the world’s leading developers, manufacturers and integrators of fleet management systems for mining industry. The company provides a comprehensive fleet management for surface mining operations of all sizes worldwide.

With over 25 years in the industry and offices on six continents, Wenco delivers world class software and hardware to accurately record equipment activity, location, time, production and maintenance information. Among Wenco’s proprietary products there are terminals and software. Wenco and Omnicomm have been partners since 2003.
FUEL CONSUMPTION IN MINING INDUSTRY

Mining is a massive industry involving a diverse range of energy intensive processes, such as excavation, mine operation, material transfer, mineral preparation and separation.

Mining practically devours energy to produce ore. Statistics shows, that in the past decade fuel consumption at the top miners more than doubled. The massive haul trucks that transport this ore, burn larger amounts of diesel in this process. Furthermore, as open-pit mines age, they deepen, which forces the haul trucks to travel longer distances at a higher grade. That increases fuel consumption even more.

Controlling fuel expenses through efficient fleet operations is a top priority for all mines. To create a new efficient fleet management system for miners Wenco needed precise and reliable fuel monitoring equipment which would perfectly integrate within their original system.

WENCO’S DYNAMIC FUEL DISPATCH SYSTEM POWERED BY OMNICOMM LLS

With mining fleet management systems primarily oriented at fuel consumption optimization, the choice of accurate fuel monitoring equipment is crucial. The new Wenco’s system – Dynamic Fuel Dispatch – was developed to achieve higher rates of fleet optimization and radically decrease unnecessary fuel expenditures in mining industry.

To be precise, Dynamic Fuel Dispatch is aimed at saving money by reducing fueling frequency and reducing travel and wait times at fuel locations, therefore keeping hauling units in production longer. The system works by automatically checking hauling unit fuel levels, and when it is time to fuel, matching each unit with the most convenient fuel location. Omnicomm LLS digital fuel level sensors are at the core of the system. They ensure highly accurate digital fuel readings for large mining equipment which doesn’t have such data automatically. Omnicomm LLS capacitive fuel level sensors send data to the fuel dispatching schedule in Wenco’s fleet control.

IOSIF TABAKMAN
REGIONAL DIRECTOR CIS, WENCO

“This system is a new quality step up in our solutions as it brings the mechanisms of fuel monitoring to a completely new level. Omnicomm LLS digital fuel tank sensors are one of the main components inside our Dynamic Fuel Dispatch. Their work allows improving real-time performance of Wenco’s integrated products. Installed now at numerous Wenco client sites and integrated with Wenco Fleet Management System, Omnicomm capacitive fuel level measurement sensors ensure high accuracy, readability, and stability when calculating the exact level of fuel in the tank. Our clients report dramatic drop of fuel consumption”.

WENCO CHOSE OMNICOMM AS THE CORE ELEMENT OF DYNAMIC FUEL DISPATCH
Fuel transactions are automatically recorded during the haul cycle when the hauling unit comes within the range of the fuel truck or bay.

Wenco’s fuel dispatching schedule quickly and easily allows the dispatcher to set, view and change the fuel schedule, minimizing down time on the haul cycle.

Fuel consumption monitoring equipment designed and manufactured by Omnicomm, allowed Wenco to manage fuel costs in real-time. Now the system enables just-in-time refueling, which improves performance of mining machinery, raising efficiency figures and finally saving more money. Omnicomm equipment provided better logistics for Wenco’s systems. Smooth and cost-effective operations are now available to all Wenco’s clients among which there are major international mining companies.

The improved product is a complete solution for efficiently managing fuel scheduling, fuel delivery, and current fuel tank levels.

Technical engineers at Wenco note: “Already installed at numerous Wenco client sites and integrated with Wenco’s Fleet Management System, Omnicomm capacitive fuel level sensors ensure high accuracy, readability and stability when calculating the exact level of fuel in the tank”.

STANISLAV EMELIANOV
DEPUTY GENERAL DIRECTOR, OMNICOMM

“Our equipment is adjustable to various types of vehicles and machinery. It is a universal fuel consumption monitoring product to integrate with various types of fleet management systems. Precise telematics solutions are vital for mining machinery which is consuming large amounts of fuel. Wenco and Omnicomm have been partnering since 2003. Omnicomm’s equipment integrated in Wenco’s Dynamic Fuel Dispatch allows miners to know exact amounts of fuel in real-time mode, and thus, save lots of money”.

INTEGRATING OMNICOMM LLS WITHIN WENCO’S DYNAMIC FUEL DISPATCH FLEET MANAGEMENT SYSTEM GAINED:

- Fuel tank sensors for highly accurate fuel level readings (99.2% level of precision)
- Fueling displays for fuel bays and fuel trucks to enter product volumes delivered
- Measurements logged and used in Wenco’s System
- Dynamic Fuel Dispatch for automated refueling assignments
- Real-time fuel reports
- Estimated ROI for miners is around 4-6 months