Fuel Management System for Mining

Turn your fuel OPEX into an OPPportunity
Fuel consumption represents one of the largest operating costs in the mining industry, yet although it is a major expense, it is rarely monitored or controlled effectively.

Now, get control of your fuel expenses with our Fuel Management System for Mining...

A solution that meets your challenges

With haulage and transportation gradually getting more expensive and difficult to monitor every day, if you don’t have a comprehensive system for managing your fuel consumption, now is the time to take action. From the need for reliable, accurate documentation of fuel costs and usage, to the desire for real-time monitoring for better analysis, Schneider Electric™ recognizes these growing industry needs.

The result? The Schneider Electric Fuel Management System for Mining. Developed by applications experts at Schneider Electric, this flexible new system helps mining operations measure, track, identify, and allocate fuel usage for better accountability by vehicle type, fuel type, and cost center, providing a comprehensive picture of fuel usage across the entire operation.

A combination of Schneider Electric hardware, software, and custom-engineering services leverages state-of-the-art technologies to monitor and track fuel inventories, purchases, and usage to help your management team make better-informed decisions that will increase mobile asset performance, reduce fuel consumption and losses, and improve overall profitability.

In addition, the system’s open platform allows miners to integrate data from the fuel management solution into other mining software and systems in order to optimize the entire production chain.
Look to the experts to help you increase operational efficiency and reduce your fuel costs.

3-8%

Typically, fuel costs for mining operations are 3-8% of OPEX.

Software features

- Simple navigation
  - Overview map of the entire mining operation
- Real-time fuel status/visibility
- Individual tanks/status/levels
- Personnel ID
- Asset ID
- Total site information
- Data is linked directly to cost centers
- Major events trigger an email or SMS notification
- Comprehensive delivery information
  - Ability to obtain a complete picture of the delivery (assets, fuel type)
- Customizable reports
  - Select and customize your reports
- Trends
  - User-defined trends (crossing different variables)
- Local Interface
  - Manual entry (Personnel, Truck ID)
  - Basic alarms
  - Totals/flow rate
- Get a full, graphical overview of the mine and its fuel assets, as well as direct links to detailed reports and data.

The Schneider Electric solution

Typical operational architecture

350

Large haul trucks can consume up to 350 liters (92 gallons) of diesel fuel per hour.

30%

The transportation of ore is typically the single largest energy-consuming action for an open pit iron ore mine, with haulage alone accounting for about 30% of a site’s total energy consumption.
Diesel consumption in the top 5 gold mines increased 70% from 2005 to 2011.

Trend = In any mine, the steady rise in fuel consumption plus the gradually increasing price per gallon/liter puts added pressure every year to control fuel costs, regardless of the commodity.

Sources: Independent researcher Steve St. Angelo and information taken from gold producers’ annual reports.

Trend = Lower yields due to declining grades of raw materials negatively impact margins and profitability, making fuel consumption a critical variable that needs to be controlled.
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Contact your Schneider Electric representative today

Make the most of your energy™