

Nabors RigWatch® Fuel Management System



Conserve fuel, reduce emissions – saving both money and the environment

Nabors' RigWatch® Fuel Management system allows rig site and offsite personnel to proactively monitor and efficiently manage engines during rig operations to reduce fuel consumption, lower maintenance costs and reduce emissions.

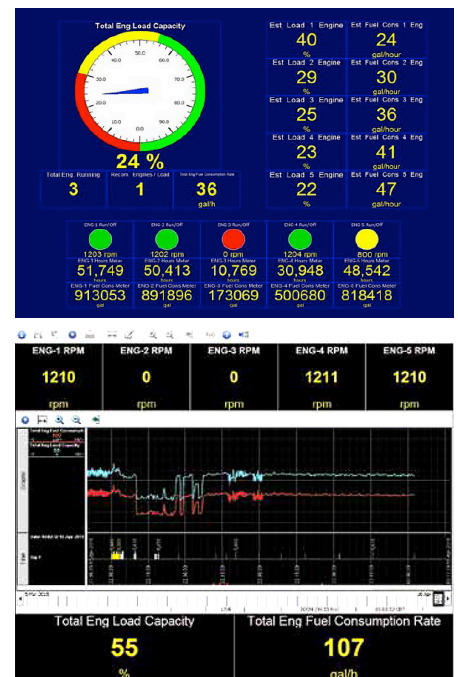
► RIGWATCH® FUEL MANAGEMENT

The inability to monitor fuel use and engine load in real-time across multiple engines can lead to unnecessary equipment usage and higher fuel costs. The RigWatch® Fuel Management system provides data that helps rig personnel understand how fuel is being consumed. This, in turn, reduces overall engine fuel usage to improve bottom line costs and achieve a new level of drilling efficiency.

Through rig site screens, personnel can see exactly how many engines are required during rig-up, drilling, logging, cementing and other phases of well operations. The

potential savings could be as much as 25 to 35 percent, including as much as 1,000 gallons of fuel savings a day, maintenance savings of up to \$1,000 a day and potential carbon dioxide (CO2) reduction of 2,000 pounds per day.

In addition, the RigWatch® Fuel Management system helps conserve fuel and reduce emissions. Each hour an engine is not running equates to a savings of \$12.34 in maintenance costs and \$22.20 in CO2 carbon credits.



► CASE STUDY: COLOMBIA 8 RIGS FOR 3 DIFFERENT OPERATORS IN 2010

- RigWatch® ECM was actively managed by NDIL Houston & rig personnel
- Fuel savings realized due to high utilization (2010 - \$1,363,264)

2009 Fuel Day Average	1,692.4
2010 Fuel Day Average	1,193.3
2009 % System Utilization	N/A
2010 % System Utilization	75.6
2009 Estimated Fuel Savings (gal)	N/A
2010 Estimated Fuel Savings (gal)	454,422
2009 Estimated Fuel Savings (USD)	N/A
2010 Estimated Fuel Savings (USD)	\$1,363,265
2009 Estimated Engine Savings (Hrs)	N/A
2010 Estimated Engine Savings (Hrs)	22,956
2009 Estimated Engine Savings (USD)	N/A
2010 Estimated Engine Savings (USD)	\$367,294

Why choose Nabors RigWatch® Fuel Management system?

- Monitor engine usage for more efficient operations
- Reduce overall engine fuel consumption
- Reduce fuel costs and emissions
- Increase drilling efficiency