

Oil & Gas

# Enhance **safety.** Ensure **success.**

Power management solutions  
for the **oil and gas industry.**



**EATON**

*Powering Business Worldwide*



## The scenario... A high-pressure drilling job is at peak production.

Your team is on an ABS/DNV classified rig drilling in 8,000' of water at a depth of 20,000'. The rig is 300 nmi offshore, sitting more than a two-hour helicopter flight away from the nearest civilization.

Currently, the rig is due to move off site in a week's time, but the job is running behind schedule. With two weeks of work left to complete the drill, the 1100HP AC top drive is working at full capacity 24 hours a day, pushing the electrical and hydraulic systems to their limits.

The threat of system failure is at an all-time high, as are the safety risks of your equipment, your people and the environment. But in this industry, we all know that failure in any capacity is not an option.

## The solution... Eaton Corporation is your partner in safety and success.

Eaton is a leading global power management company. We help the world use electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably.

Eaton has been providing power management solutions to the oil and gas exploration and production industry for more than 100 years, and we understand the growing demands of this line of work. We provide a full range of products, as well as entire systems, designed to increase the safety of your operations and reduce the risk of catastrophic failure.

### Arc Flash Safety

Arc flash safety is extremely important in the oil and gas industry, and Eaton is committed to providing solutions that will help you protect your most valuable assets. We offer the industry's widest range of arc flash mitigation products, services and solutions that can be applied to new or retrofit applications. Our extensive array of product categories in arc flash prevention include LV and MV switchgear, LV and MV motor control centers, contactors, starters and circuit protection devices, just to name a few.

In addition, our Electrical Engineering Services and Systems group (EESS) is comprised of leading engineers who can train your employees on proper application of these products. The EESS team can also complete arc flash hazard analysis, focusing on enhancing your facility's overall safety and improving operating costs and efficiencies.

Eaton's focus on safety extends beyond its product and service offering. As a platinum-level contributor to the Arc Flash Collaborative Research Project organized by the Institute of Electrical and Electronic Engineers (IEEE) and the National Fire Protection Association (NFPA), Eaton is working to expand the knowledge of electric arc flash phenomena and enhance worker safety.

### LifeSense™ Technology

Hydraulic hoses play a critical role in the oil and gas industry, found deep within some of your highest functioning products and equipment. When a hose fails, it can result in serious safety issues, environmental concerns and system downtime, all of which have economic impacts on your business.

But what if you could be alerted before a hose fails? With Eaton's LifeSense™ technology, you can. This patented system monitors hydraulic hose condition in real time, detects when a hose is going to fail, and alerts you when a replacement is needed. This intuitive technology not only safeguards your workers and your equipment, but it also extends hose life up to 50%.

Eaton's LifeSense™ technology can be applied to a variety of products and equipment. We'd be happy to discuss the possibilities and improvements that LifeSense™ can provide for your business.

### Filtration Solutions

Eaton's filtration technology and service capabilities—together with deep industry experience, world-class products and a global presence—make us highly qualified to deliver solutions in your demanding environments. Currently, Eaton's filtration products can be found in over 500 oil and gas facilities worldwide.

Eaton offers customized products and services enabling you to evaluate and execute filtration solutions that reduce costs, improve process control performance, manage risks and promote environmental stewardship.

Our knowledgeable application engineers are always available to evaluate your system and ensure it is performing at peak efficiency. Together, we can help you achieve the highest level of reliability, efficiency and safety in your operations.

For more information about the products, services and solutions that Eaton provides to the oil and gas industry on a global level, visit [www.eaton.com/energymarket](http://www.eaton.com/energymarket)



Arc Flash Safety



LifeSense™ Technology



Filtration Solutions

Eaton Corporation is a diversified power management company with 2010 sales of \$13.7 billion. Celebrating its 100th anniversary in 2011, Eaton is a global technology leader in electrical components and systems for power quality, distribution and control; hydraulics components, systems and services for industrial and mobile equipment; aerospace fuel, hydraulics and pneumatic

systems for commercial and military use; and truck and automotive drivetrain and powertrain systems for performance, fuel economy and safety. Eaton has approximately 70,000 employees and sells products to customers in more than 150 countries. For more information, visit [www.eaton.com](http://www.eaton.com).

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