

*EHM enabled more than \$50M savings in three years*



# Rolls-Royce Energy

## Success story

The Energy business of Rolls-Royce achieved significant savings and increased availability of their high-value assets with equipment health monitoring (EHM) technology from Optimized Systems and Solutions (OSyS). Over a three-year period, Rolls-Royce realized more than \$50 million in savings, including increased availability of their equipment to end users.



### Rolls-Royce in the energy market

Rolls-Royce recognizes that maximum operational availability and optimum performance are key demands in the energy industry. Their TotalCare® agreements deliver guaranteed up-time, allowing end-users to remain competitive and maximize revenues.

TotalCare provides a single-source solution that ensures peace of mind for the overall lifetime support of the equipment. OSyS' EHM solution – available to original equipment manufacturers and end-users alike – is an important part of the Rolls-Royce TotalCare package. We partner with our customer to align our total-support program to each unique operation.

### Market challenges

Oil, gas, and electricity prices are volatile. Competition is intense. Customer expectations continue to grow. For these reasons and more, asset availability is critical.

Any unscheduled downtime can have a major financial impact. Without swift detection and response, even single events such as a bleed valve sticking or a drop in lube oil levels can be extremely costly. Effectively managing and optimizing maintenance is key to ensuring maximum efficiency, increasing productivity and lowering in-service costs.

### OSyS' solution

OSyS' EHM solution predicts when equipment critical to operations may fail and manages the required workflow to continuously improve asset reliability. It comprises EHM experts using a proven and refined workflow that is underpinned by a commercial software solution. The software not only provides a platform from which OSyS performance engineers efficiently deliver services, but is licensed to customers who prefer to run their own EHM program with non-Rolls-Royce equipment. The solution has been proven through monitoring more than 7,000 high-value assets in the aviation, oil & gas and power generation industries.

ProtectPerformPredict



## Benefits from OSyS' EHM

- *Maximized availability of high-value assets*
- *Reduced in-service costs*
- *Mitigated risk*
- *Reduced need to mobilize personnel*
- *Optimized remote technical support*

## Successful outcomes

The value of OSyS' EHM solution is demonstrated in the savings and increased asset availability it has provided.

In one instance, a Rolls-Royce customer saved approximately \$4 million by acting on an alert that resulted from OSyS' monitoring solution. Preventive actions taken by customers have typically provided savings in the range of \$500 thousand to \$1 million per individual alert.

The alerts allowed customers to take early action to resolve situations such as an oil system problem or loss of efficiency related to a malfunctioning valve. In these and other instances, asset availability was maintained and efficiency was quickly improved.

## The story continues

OSyS continues to provide EHM services to Rolls-Royce, contributing to the TotalCare agreements that enable end-user customers to remain competitive and maximize revenues.

The EHM solution OSyS provides to Rolls-Royce and its customers is built on experience gained from more than a decade of delivering equipment health monitoring services worldwide. By constantly refining our EHM offering, we continue to deliver optimal decision-support information. This enables our customers to allocate resources more efficiently and achieve significantly higher performance levels, availability, safety and compliance.

*TotalCare® is a registered trademark of Rolls-Royce plc.*

## Contact Information

Optimized Systems and Solutions  
info@o-sys.com

[www.o-sys.com](http://www.o-sys.com)

