ERIKS

Case Study

CO_2 emission cuts and significant savings achieved with ERIKS' smart TCO Calculator

Summary

To help realise its 2030 net zero ambition, a global pharmaceutical company investigated the benefits of carrying out a complete upgrade of its existing older inefficient motors and addressing steam and pneumatic system leaks. Partnering with ERIKS, the company began a journey that is already significantly reducing its CO_2 emissions while making substantial financial savings.

Sustainability

Fuelled by the growing demand for sustainable products and increasing legislation requirements, the company aims to reach net zero emissions throughout its operations by 2030, use 100% renewable electricity by 2025, and secure a net zero value chain by 2030.

Challenges

Inefficiency and preventable emissions

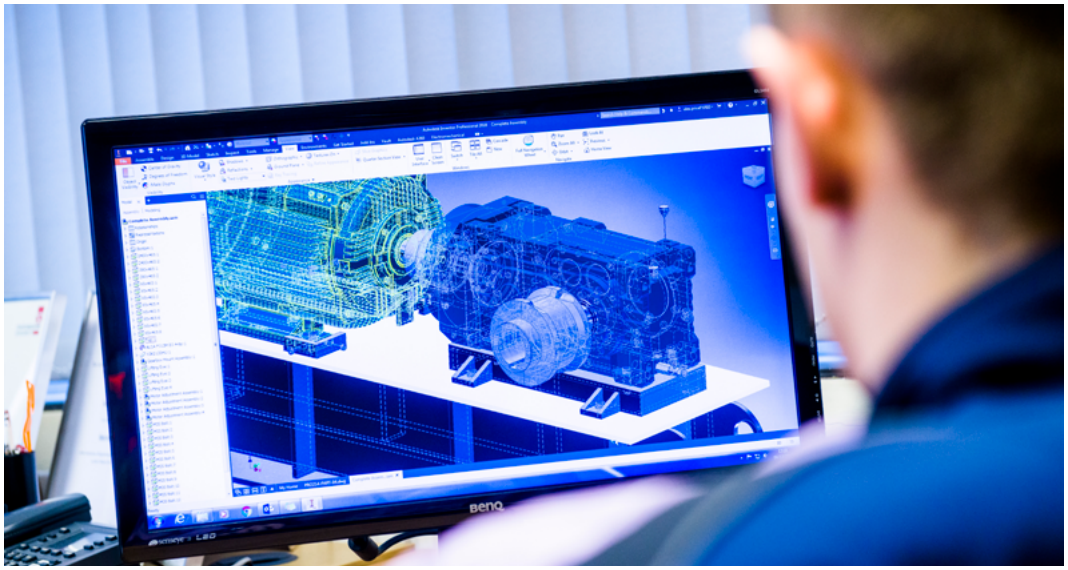
The company's outdated pump motors and steam and pneumatic systems required upgrades to help work towards its 2030 net zero targets. Furthermore, the company experienced notable energy losses due to faulty components and a defective steam trap at one site, leading to an annual expense of £41,000 and CO_2 emissions increase of around 310 tonnes. The firm aimed to resolve these issues and enhance motor efficiency across its facilities.

In our current environmentally conscious era, neglecting issues like energy consumption, water usage and waste can adversely affect both our planet and a business's profitability. Industries face substantial and ongoing pressure to comply with evolving sustainability regulations. Making informed decisions to meet both in-house sustainability objectives and regulatory requirements is vital. To this end, the company approached ERIKS to assess its systems and provide guidance for sustainable and efficient future operations.

Solution

ERIKS is a preferred MRO supplier and has a contract to run the company's on-site engineering stores in the UK. Through its Product Business Units, ERIKS has the capability to provide expert application and engineering support through its smart TCO calculator. This was used to demonstrate the benefits of replacing the ageing inefficient motors with new highly efficient IE3 and IE4 motors. The TCO calculator clearly highlighted energy and payback calculations to help ensure the company meets its 2030 net zero target.

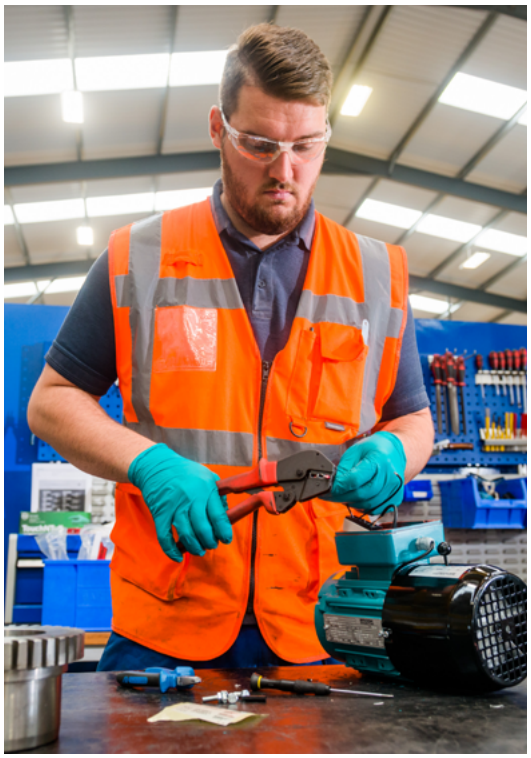
ERIKS carried out full surveys throughout the company's UK sites. As well as motor surveys, the programme also included air leak surveys which were conducted by ERIKS-trained reliability engineers and steam trap surveys carried out by ERIKS' preferred supplier, Spirax Sarco.



Survey results simplify the decision-making process

Once the surveys were completed, all TCO and energy payback calculations were sent to each site's key stakeholders to help them make informed decisions on which motors would benefit from a pre-emptive upgrade to high efficiency IE3 and IE4 motors.

After approval of the proposal, the replacement programme commenced in 2021 and the first deliveries and installations took place in 2022. The company has undertaken further surveys and more installations are planned for 2023 and 2024.

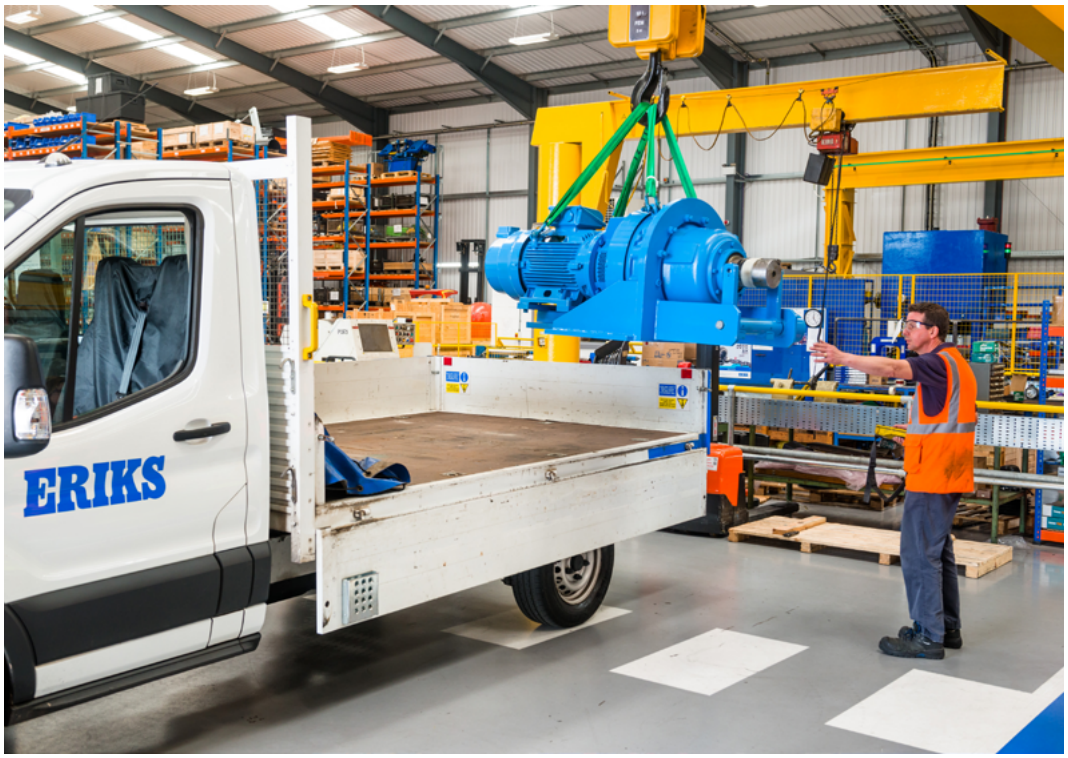


Results

The satisfied customer stated:

“The project and execution was pragmatic and straightforward. Given ERIKS knows our operation well, there was no involvement needed from our side to make this project a success.”

This productive partnership led to a seamless transition, despite the project’s magnitude. With the introduction of IE3 and IE4 motors, the company can anticipate a yearly reduction of approximately 438 tonnes in CO_2 emissions once all replacement motors are installed. This corresponds to an annual savings of around £229,000.

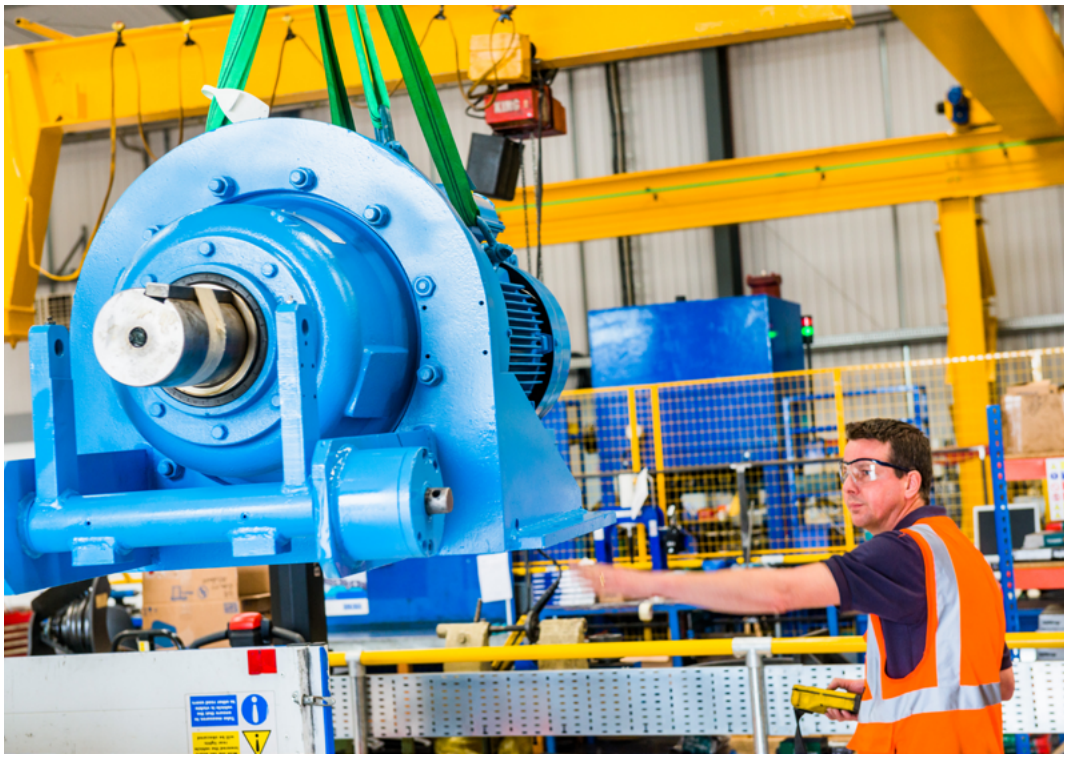


A lifetime of savings

The firm anticipates a reduction of 6,600 tonnes of CO_2 emissions via the implementation of advanced IE3 and IE4 motors. This translates to financial savings of approximately £3 million, a significant improvement over the £235,000 generated by the prior, less efficient motors.

Addressing air and steam leaks, based on survey findings, could result in an additional reduction of around 420 tonnes of CO_2 or about £83,000 in savings. Additional surveys are set to be conducted at several UK locations.

The firm is currently considering optimisation initiatives for LED lighting and water conservation, with the potential of expanding these improvements to its global branches.



About ERIKS

ERIKS is a specialized industrial service provider that offers a wide range of technical products, co-engineering and customization solutions, as well as related services. We help customers in the chemical industry to improve their products' performance and reduce their total cost of ownership.

Our technical know-how is the basis of our specialism. We are present in 15 countries worldwide and over the last 80 years, we have built up deep expertise in the areas of sealing & polymer, gaskets, valves & instrumentation, industrial & hydraulic hoses, industrial plastics, power transmission & bearings, conveying systems and tools, maintenance & safety products. We supply A-brands as well as our own ERIKS products. A strong focus on digitalization and data insights allows us to develop new services and improve processes for our customers.

At ERIKS, we stand for doing good business. We value long-lasting relationships with all our stakeholders, conduct business in a fair and transparent way and contribute to a better and more sustainable society.

#better4pharma

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