



Whitepaper

## Energy Efficiency

How companies can increase their energy efficiency and achieve their sustainability goals with speciality lubricants.

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### Brief summary

Companies are increasingly looking for new ways to improve manufacturing efficiency in order to meet social objectives and political targets in terms of environmental protection. At the same time, they want to counter the increasing cost pressure in the best possible way. Here, the topic of energy efficiency is becoming increasingly important. It includes two important areas for companies: On the one hand, using energy efficiently in production helps to reduce costs. On the other hand, reduced energy consumption helps companies achieve their sustainability goals. The use of speciality lubricants is a simple and often underestimated approach that companies can adopt at relatively little cost to

significantly reduce their energy consumption and therefore their direct or indirect CO<sub>2</sub> emissions. In addition, high-performance lubricants allow the relubrication intervals to be extended, thus reducing waste.

Positive secondary aspect: The operating costs can also be substantially reduced in this way. Here, the possibilities are enormous and far from exhausted. Consulting services such as the KlüberEnergy services of tribology specialist Klüber Lubrication provide a systematic approach to identifying and realising optimisation potential.

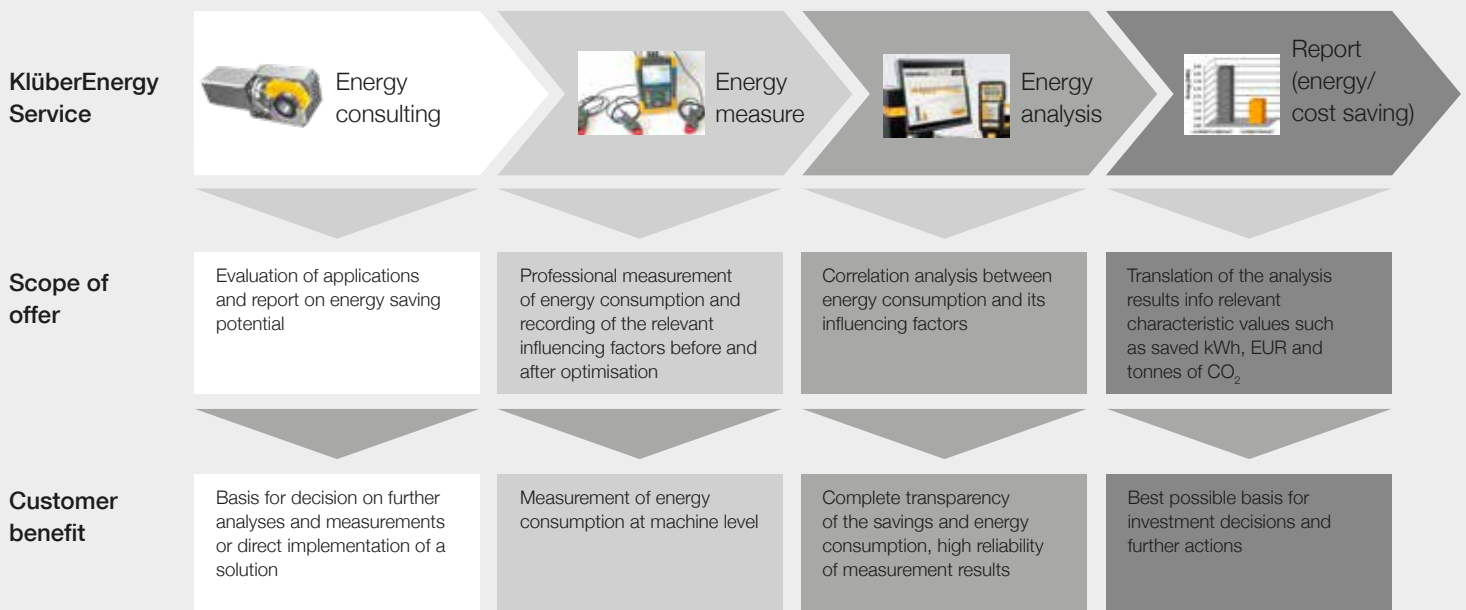


## KlüberEnergy services

With KlüberEnergy, Klüber Lubrication has developed a service that helps to systematically identify and realise the existing potential for increasing the efficiency of a company. KlüberEnergy projects offer the advantage that demonstrable energy cost savings can be achieved with relatively little effort on the part of the customer. Together with the respective customer, Klüber Lubrication develops a solution for the respective specific conditions that is not limited to mere lubricant recommendations..

A KlüberEnergy project includes the professional survey of savings potential in the tribological systems, measurement of the energy consumption before and after the solution is introduced, professional analysis of the measured data and translation of the measurement results into concrete information about the financial savings achieved. Based on the analysis of the tribological system, a high-performance lubricant is selected for use after the first measurement. Then the second measurement is performed. In addition, the facility in question is analysed holistically.

### KlüberEnergy – the advisory approach



## Stricter audit regulations with ISO 50003

For more and more companies, certification of their energy and resource management plays an important role. With the new version of ISO 50003, which came into force in 2017, there are fundamental changes for companies with a certified energy management system. In accordance with the standard, auditors require proof of the energy efficiency measure, which is generally confirmed by measurements. For both initial certification and re-certification, companies must therefore prove that they are continuously improving their energy efficiency. For this purpose, KlüberEnergy offers a systematic approach that supports companies in achieving their goals and validating improvements.

## Innovator Klüber Lubrication

Klüber Lubrication combines the experience gained from many years of broad-based fundamental research, numerous KlüberEnergy service projects and feedback from the market to develop energy-efficient lubricant solutions that help users in a wide range of industries to reduce their energy consumption.

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Geisenhausenerstraße 7, 81379 München, Germany, HRA 46624

[www.klueber.com](http://www.klueber.com)