



# Energy Optimization Services

A non-binding analysis of the current pump performance that will help to find potential energy savings and optimize the pumping system.

**GRUNDFOS** 

Possibility in every drop

# Why is energy optimisation so important?

A Grundfos Energy Check or Energy Audit can help you find hidden savings in your organisation. It can identify potential energy savings in your pump installation and help you understand how to save on your pump operating expenses.



## How do you benefit?



### FINANCIAL

Typically 30% reduction in energy costs

Short payback time (1-5 years)

Overview of pump lifecycle costs

Reduced operation costs

**Improving their business performance**



### ENVIRONMENTAL

Reliable operation Low failure rates

Complete overview of pump installations

Reduced downtime  
Reduced repair costs

Improved overview for pump maintenance and replacement

**Achieving a safer and optimised pump operation**



### OPERATIONAL

Typically 30% reduction in CO2 emissions

Contributes to environmental and energy targets

Compliance with energy regulations and standards

Improved environmental footprint

**Improving the green image of their business**

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Reduced operation costs <b>Improving their business performance</b>	Improved overview for pump maintenance and replacement <b>Achieving a safer and optimised pump operation</b>	Improved environmental footprint <b>Improving the green image of their business</b>



# Energy Check

To realise the hidden savings in the pumps, Grundfos in close collaboration with selected service partners and dealers offers a complimentary energy check of the pumps.

This walk through assessment will be as per ISO 14414 standards and through this Grundfos will identify potential savings and recommend solutions to improve system efficiency.

## The Energy Check is Fast & Easy. Here is how it works:



### 1. ONSITE INSPECTION

Grundfos along with its authorized partners will conduct a 3-4 hour survey of the pump installations. During this time critical parameters such as age, flow, head, power consumption and operational issues (if any) will be discussed and noted. The inspection requires no downtime of the system.



### 2. ENERGY CHECK REPORT

The findings are recorded in an energy check report. This report gives a complete overview of the pump installation, recommendation, savings, investment and pay-back time.



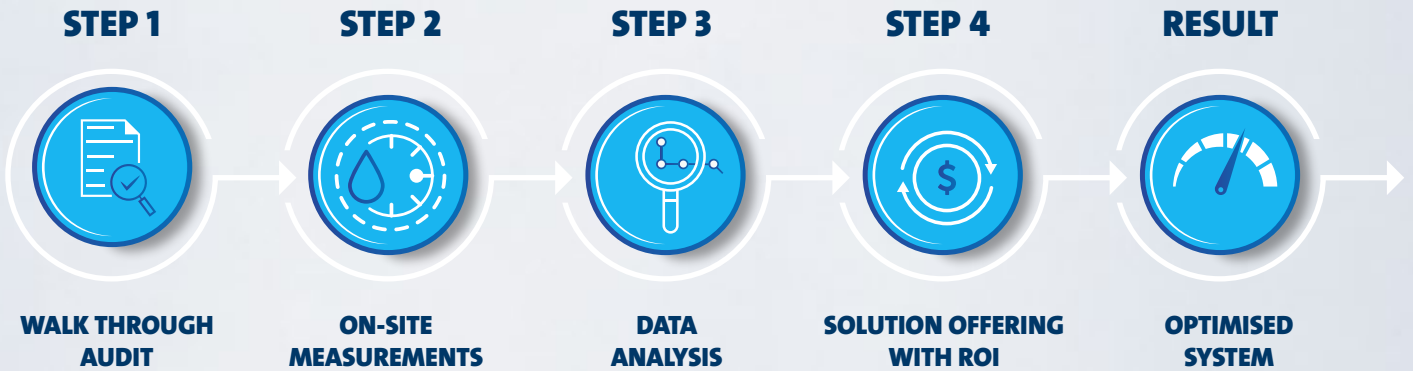
### 3. REALISE SAVINGS

The energy check report will be presented and the recommended solutions will be discussed. This will be a 1-2 hour meeting. It will also include the action plan for execution.

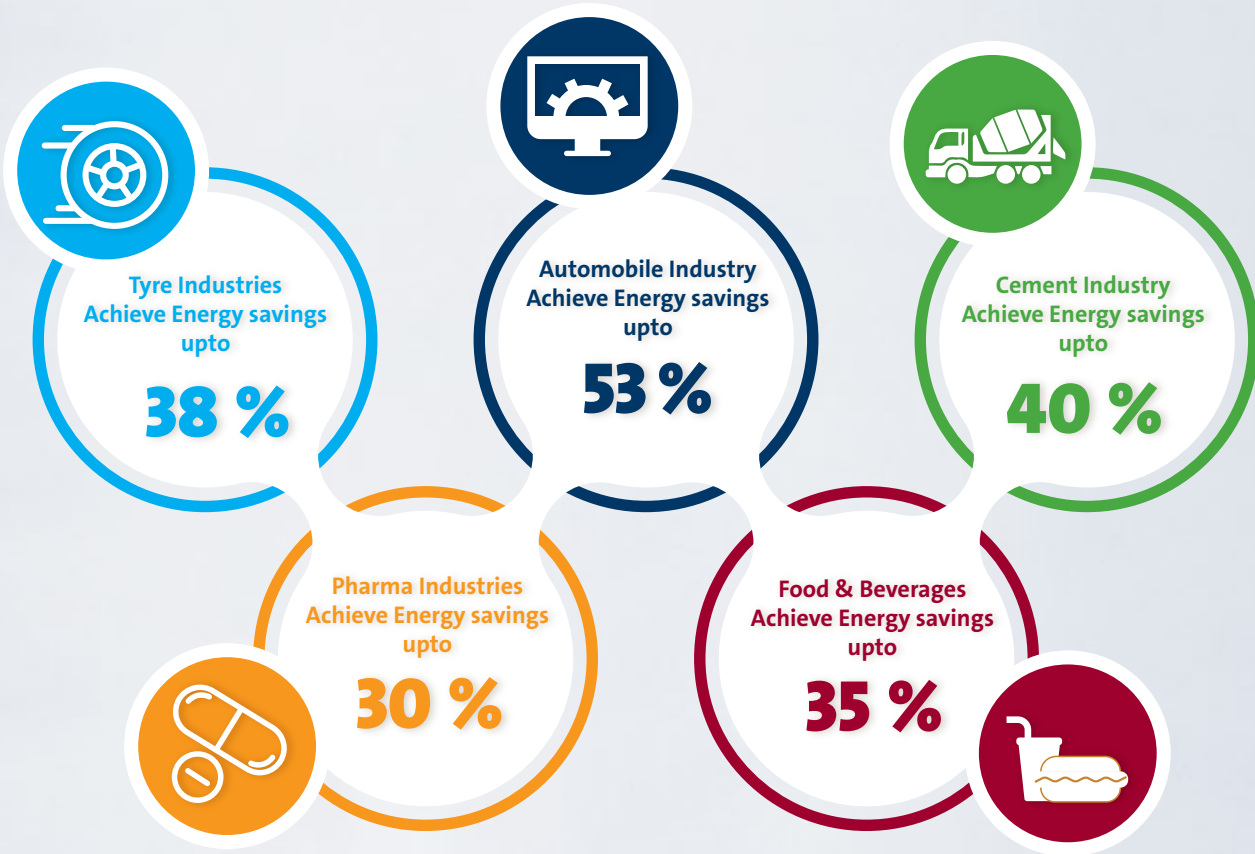


# Energy Audit

An energy audit is the ideal way to find out whether pump system is operating efficiently. It is an optimal way to reduce carbon emissions and save operational expenses by a thorough analysis of installations.



# Energy savings potential through Grundfos Energy Audits!



**GRUNDFOS** | A SMART SOLUTION  
**iSOLUTIONS** | FOR YOU



# 8 Cases to help you make the right decision

The potential of the energy check has been proven by a number of projects in different sectors and applications. Below are some of our energy optimisation cases from the India, Middle East and Europe.

## Food & Beverage Industry in India

Energy Savings upto 31%

Application : HVAC  
Size : Large Industry  
Energy saved : 0.17mio kWh/year  
Investment : 5.800 USD  
Saved Money : 13.600 USD/year

PAYBACK TIME: Less than a year



## Automobile Plant in Turkey

Energy Savings upto 53%

Application : Industrial Automotive  
Size : Large Industry  
Energy saved : 0.17mio kWh/year  
Investment : 24.800 USD  
Saved Money : 20.500 USD/year

PAYBACK TIME: 1 Year 2 Months



## Food and Beverage Industry South Africa

Energy Savings upto 16 %

Application : Boiler  
Size : Large Industry  
Energy saved : 0.21mio kWh/year  
Investment : 98.500 USD  
Saved Money : 25.700 USD/year

PAYBACK TIME: 3 Years 8 Months



## Cement Plant in India

Energy Savings upto 38%

Application : Auxillary Cooling Water for Turbine  
Size : Large Industry  
Energy saved : 1.39mio kWh/year  
Investment : 34.600 USD  
Saved Money : 81.000 USD/year

PAYBACK TIME: Less than a year



## Tyre Plant in India

Energy Savings upto 37.5%

Application : Process Cold Water for Curing Press  
Size : Large Industry  
Energy saved : 0.52mio kWh/year  
Investment : 34.600 USD  
Saved Money : 42.000 USD/year

PAYBACK TIME: 1 Year 4 Months



## Desalination Plant in Dubai

Energy Savings upto 40%

Application : Sea Water Desalination  
Size : Large Industry  
Energy saved : 1.30mio kWh/year  
Investment : 3.25.580 USD  
Saved Money : 3.55.125 USD/year

PAYBACK TIME: Less than a year



## Pharmaceutical Company in Dubai

Energy Savings upto 24.58%

Application : Process Cooling  
Size : Small Industry  
Energy saved : 0.07mio kWh/year  
Investment : 30.000 USD  
Saved Money : 9.000 USD/year

PAYBACK TIME: 3 Years 3 Months



## Pharmaceutical Plant in India

Energy Savings upto 30%

Application : Process Cooling and HVAC Pumps  
Size : Large Industry  
Energy saved : 0.47mio kWh/year  
Investment : 9.000 USD  
Saved Money : 38.200 USD/year

PAYBACK TIME: Less than a year



### Contact us

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