



5 WAYS **PUMPS CAN HELP POWER** **YOUR SUSTAINABILITY** **TRANSFORMATION**

A food and beverage industry eBook

GRUNDFOS 

Possibility in every drop

OUTDATED PUMPS ARE HOLDING YOU BACK

When they stop working, so do your processes. And yesterday’s pump technology won’t help you meet tomorrow’s sustainability goals. In fact, pumps may account for 40% of industrial energy use,* which means that inefficient and outdated pumps can bring significant business costs and a substantial carbon footprint.

Energy efficient pumps are one of the most impactful investments you can make to reduce overall energy and water consumption, improve efficiency, ensure reliability, and make your business more sustainable for the future. Look for a provider that doesn’t just offer pumps but serves as a partner to help you meet long-term goals. As you’ll see, Grundfos has the products, the expertise and the focus on innovation needed to help power your sustainability transformation.

New Pumps Empower You to...

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* [The Hydraulic Institute](#)

New Pumps Empower You to...

1. INCREASE ENERGY EFFICIENCY

In recent years, you've faced mounting pressure to meet high efficiency standards on your plant floor, reduce energy costs and decrease carbon emissions. Scrutiny of your facility's energy consumption will only continue to grow, as a new study reveals that the animal-based food industry accounts for 57% of all global food production-related carbon emissions.*

Increasing energy efficiency across operations is essential and entirely possible with energy-efficient pumps powering your water processes. You just need the right provider to help you achieve this goal.

Look for the pump solution provider that offers:

- Highly efficient products
- A focus on technical innovation
- New product development

HOW GRUNDFOS DELIVERS

- Unmatched focus on energy efficiency and system optimization
- Monitoring solutions that trigger systems to run only when needed
- About 5% annual revenue investment in research and development to continue a legacy of energy-saving innovation

CASE STUDY

50% REDUCED ENERGY
CONSUMPTION

Turkey processing plant in Virginia yielded energy savings of over \$50,000 by using a Grundfos high pressure pump solution for its washdown and sanitation system

[Read the full story >](#)

* [University of Illinois study in the journal Nature Food](#)

New Pumps Empower You to...

2. ENSURE PROCESS RELIABILITY

You know all too well the cost of production shutdowns. And you know that proactive, predictive maintenance is vital to keeping your operations running. But you might not know that pumps can support your predictive maintenance program.

Today's pumps feature digital monitoring and reporting capabilities that detect issues before they cause equipment damage and process downtime. The ideal pump solution provider is one that understands the importance of process reliability and can help you ensure it.

Look for the pump solution provider that offers:

- Expertise with systems across your facility
- Products compatible with other brands
- Excellent customer service
- Local representatives and a global perspective on the industry

HOW GRUNDFOS DELIVERS

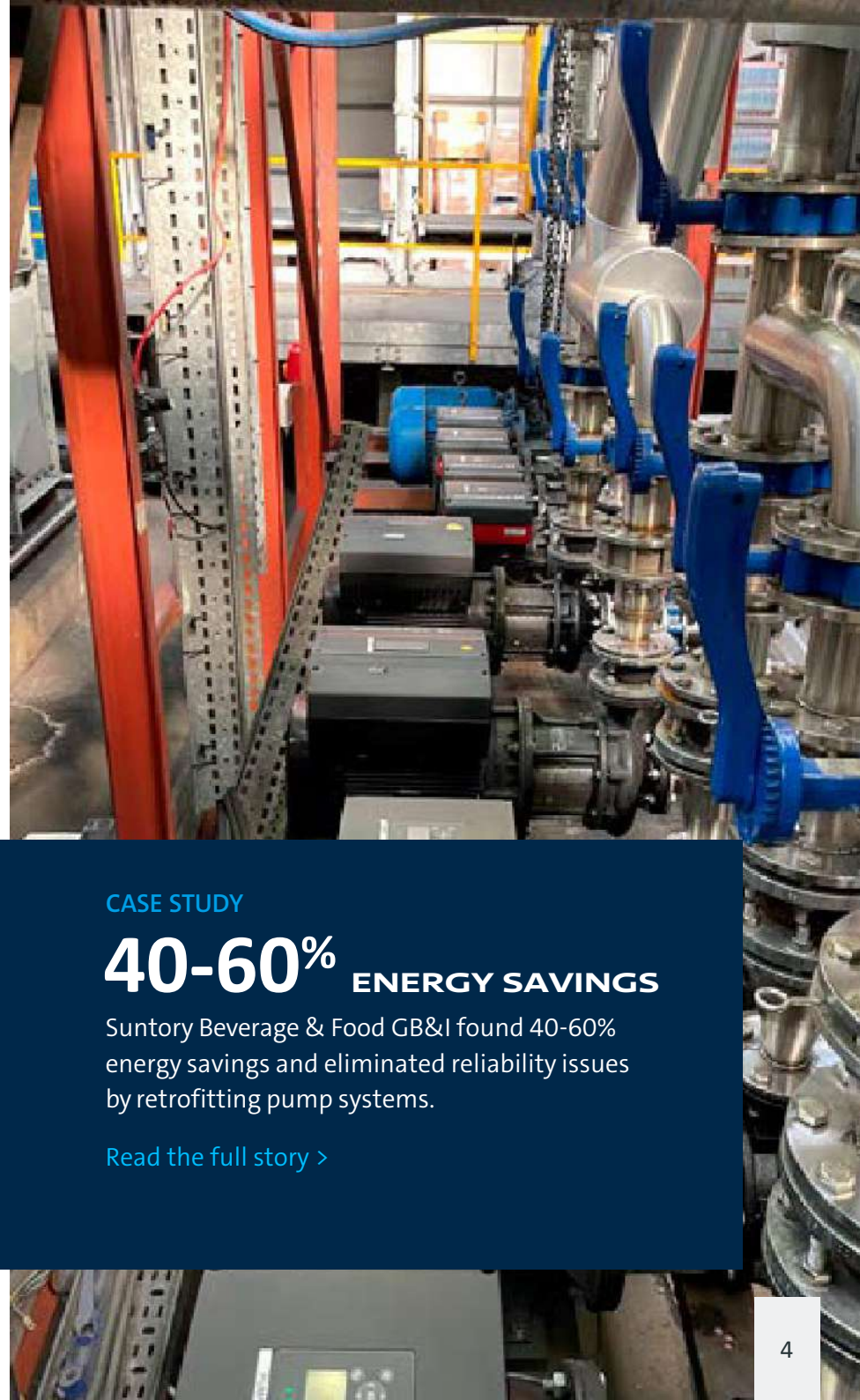
- Full line of reliable pump solutions for all processes involving water and other fluids
- Continuous monitoring solutions that use advanced sensors to watch over critical assets 24/7, providing alerts with detailed malfunction analyses and actionable insights to help you prevent unexpected downtime

CASE STUDY

40-60% ENERGY SAVINGS

Suntory Beverage & Food GB&I found 40-60% energy savings and eliminated reliability issues by retrofitting pump systems.

[Read the full story >](#)



New Pumps Empower You to...

3. REDUCE MAINTENANCE COSTS

Pump system maintenance is expensive — both due to the cost of parts and labor and due to lost production time. You might assume these are just the costs of doing business, but you can see significant savings when you upgrade to new pumps that streamline servicing.

Look for the pump solution provider that offers:

- Total systems as well as individual parts
- Products designed to make maintenance easy
- Digital monitoring capabilities
- Responsive service capabilities

HOW GRUNDFOS DELIVERS

- Quality parts made to last
- Product features that simplify servicing, such as a maintenance-free mechanical shaft seal
- Grundfos iSOLUTIONS, enabling real-time monitoring, remote control, fault prediction and system optimization
- Local service representatives with expertise in food processing
- Low total cost of system ownership

CASE STUDY

Safe Foods reduced maintenance costs by ensuring consistency and reliability with the Grundfos SMART Digital Dosing pump and its system diagnostics capabilities.

[Watch the video >](#)



New Pumps Empower You to...

4. HELP REDUCE THE INDUSTRY'S ENVIRONMENTAL IMPACT

In 2022, Grundfos has become the first company in the water solutions sector* to receive full validation of its 2050 net-zero target from the Science-Based Targets initiative (SBTi), a climate action organization that enables companies to set greenhouse gas (GHG) emissions reduction targets grounded in science. By being a part of that, Grundfos has joined over 4500 global companies that are taking immediate action to help the industry reduce its environmental impact.

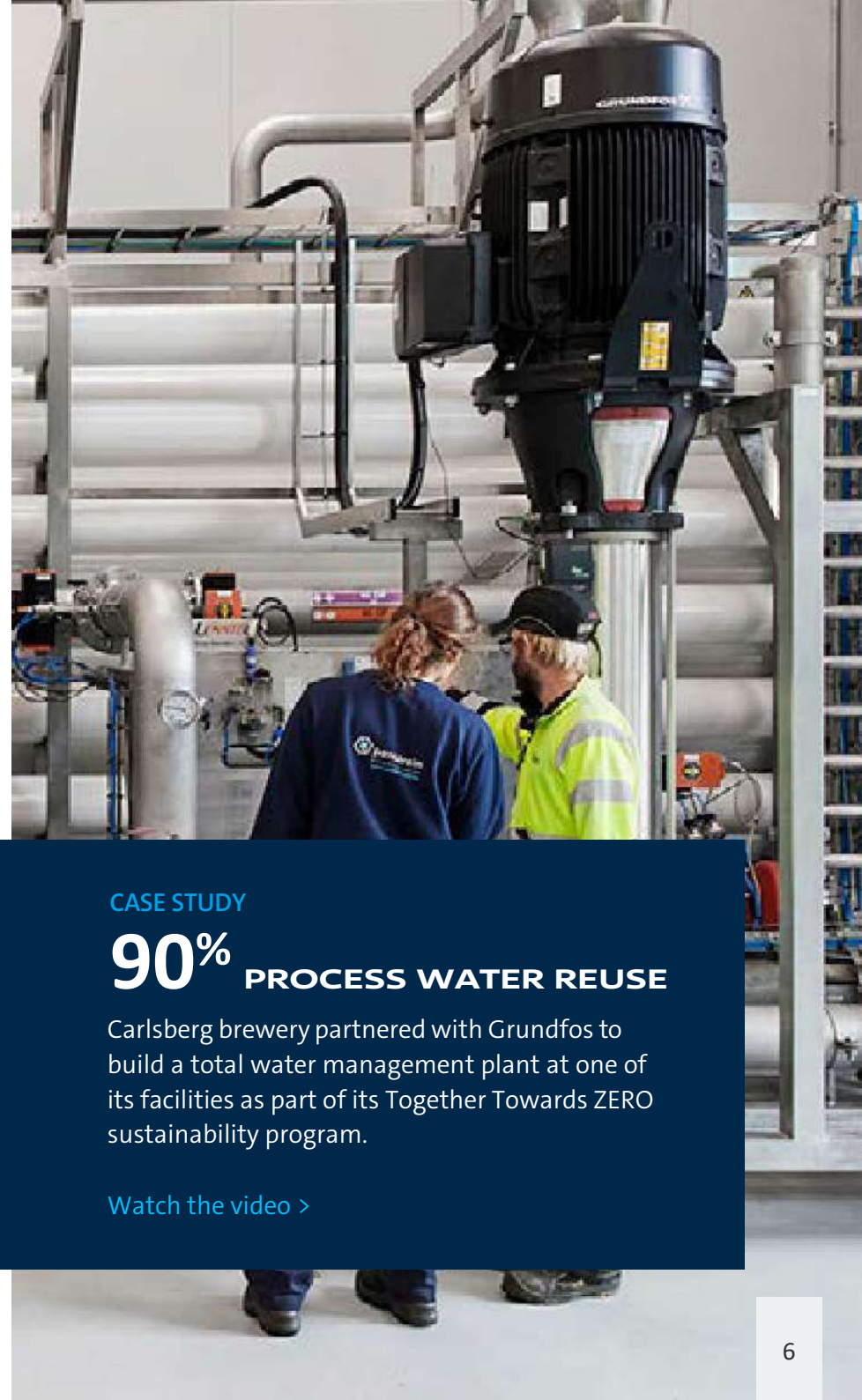
Installing new, water and energy efficient pump solutions will help you do your part in reducing environmental impact — starting immediately. The right provider can help you identify the systems that will work best for your applications and the entire industry.

Look for the pump solution provider that offers:

- Experience working in the industry
- Knowledge of regulations and environment initiatives
- Expertise regarding water treatment and reuse

HOW GRUNDFOS DELIVERS

- Expertise gained through collaboration with the biggest food processors and 75 years of water technology knowledge
- A deep understanding of regulatory compliance and changes you can make to reduce climate impact now
- Water treatment and reuse solutions designed for your processes



CASE STUDY

90%

PROCESS WATER REUSE

Carlsberg brewery partnered with Grundfos to build a total water management plant at one of its facilities as part of its Together Towards ZERO sustainability program.

[Watch the video >](#)

* As found on Science-Based Targets initiative's publicly available target dashboard as of 9 November 2022.

New Pumps Empower You to...

5. MOVE TOWARD YOUR LONG-TERM GOALS

The sustainability transformation is going to take real work over the next 10 to 30 years, especially as the need for water conservation continues to grow. Make it all a little easier with today's pump technology and water movement experts. Whether your company has made sustainability commitments or is still trying to set realistic goals, a pump solution provider can help you along the journey.

Look for the pump solution provider that offers:

- Insights beyond pump performance
- Investment in science-based targets and scopes 1, 2 and 3*
- Focus on your long-term success and impact

HOW GRUNDFOS DELIVERS

- Consultancy services such as Energy Checks and Pump Audits to identify opportunities to reduce energy consumption
- Real understanding of pump efficiency and how it impacts overall energy usage and carbon emissions
- A partnership approach to helping you reach your sustainability targets

SUSTAINABILITY

2030 GOAL FOR BECOMING CLIMATE POSITIVE

Grundfos shares your commitment to sustainability and is taking steps throughout the value chain to become climate positive.

[Learn more about sustainability at Grundfos >](#)

* Scopes 1 and 2 are related to reducing direct and indirect emissions from the companies' own operations while scope 3 is related to reducing indirect emissions from the whole value chain.

GRUNDFOS PRODUCTS

IN FOOD AND BEVERAGE APPLICATIONS



Water Intake & Feed

Cleaning

Water Treatment

Wastewater

Temperature Control

Pump Solutions

- CR and CRE multistage pumps
- Smart dosing pumps
- End-suction pumps
- Split-case pumps

Customized Solutions & Systems

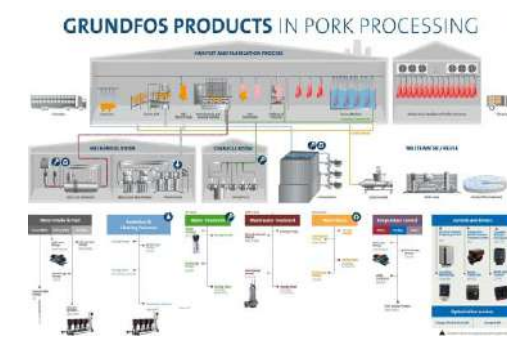
- Dosing skids
- Hydro MPC (constant pressure)

Controls and Monitoring Solutions

- Grundfos Machine Health
- Grundfos iSOLUTIONS

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GRUNDFOS PRODUCTS

IN FOOD AND BEVERAGE APPLICATIONS



[Dairies](#)



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[Meat & Poultry](#)

[Water Intake & Feed](#)

[Cleaning](#)

[Water Treatment](#)

[Wastewater](#)

[Temperature Control](#)

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OPPORTUNITIES FOR IMPACT

Here are just some of the ways Grundfos could help your facility become more sustainable.



PUSHING EFFICIENCY LEVELS FROM GOOD TO GREAT

You closely monitor your facility's energy consumption, and your reports indicate a moderate level of efficiency across your operations. But Grundfos identifies an incorrectly sized pump in just one application. You replace it, and the energy savings cover the cost of the new pump in less than two years.

Relevant Grundfos products and services:

- Energy Check
- Controls and monitoring for temperature control
- Grundfos Machine Health



ENSURING PROCESS RELIABILITY

Your cleaning process suddenly stops working one day. A local service technician shows up to assess the problem and gets your process back up and running with a replacement pump and digital tools that will notify you of any future issues, preventing unexpected downtime.

Relevant Grundfos products and services:

- Cleaning process pumps
- Controls and monitoring for industrial water treatment

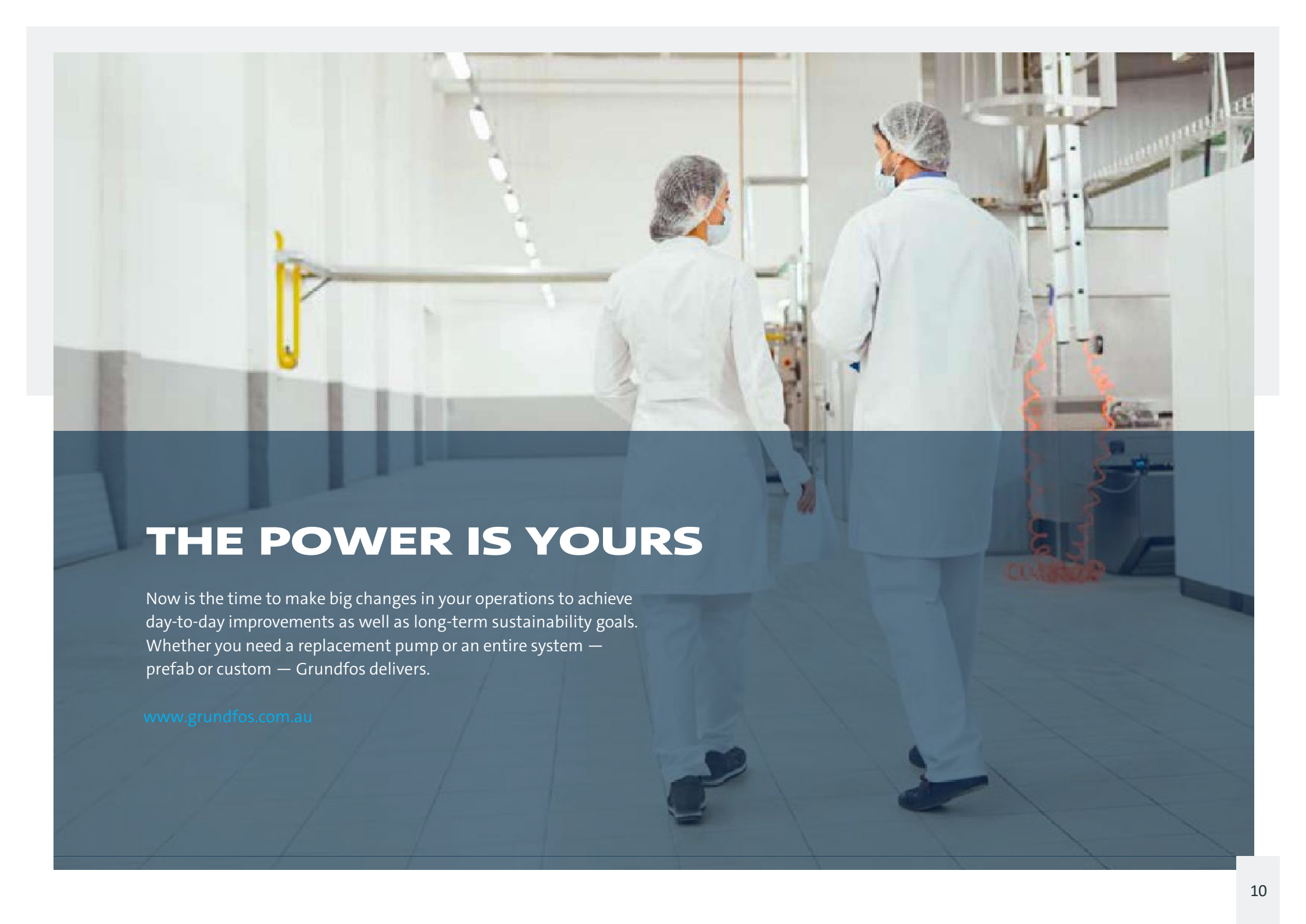


MEETING SUSTAINABILITY GOALS

Upper management tightens your company's sustainability goals, and you have no idea how you'll achieve them. Grundfos works with you to develop a plan to optimize your chemical dosing system, implements the solution and comes back to verify that it's performing as expected.

Relevant Grundfos products and services:

- Grundfos iSOLUTIONS
- Controls and monitoring for wastewater treatment & reuse
- Sensors



THE POWER IS YOURS

Now is the time to make big changes in your operations to achieve day-to-day improvements as well as long-term sustainability goals. Whether you need a replacement pump or an entire system — prefab or custom — Grundfos delivers.

www.grundfos.com.au

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