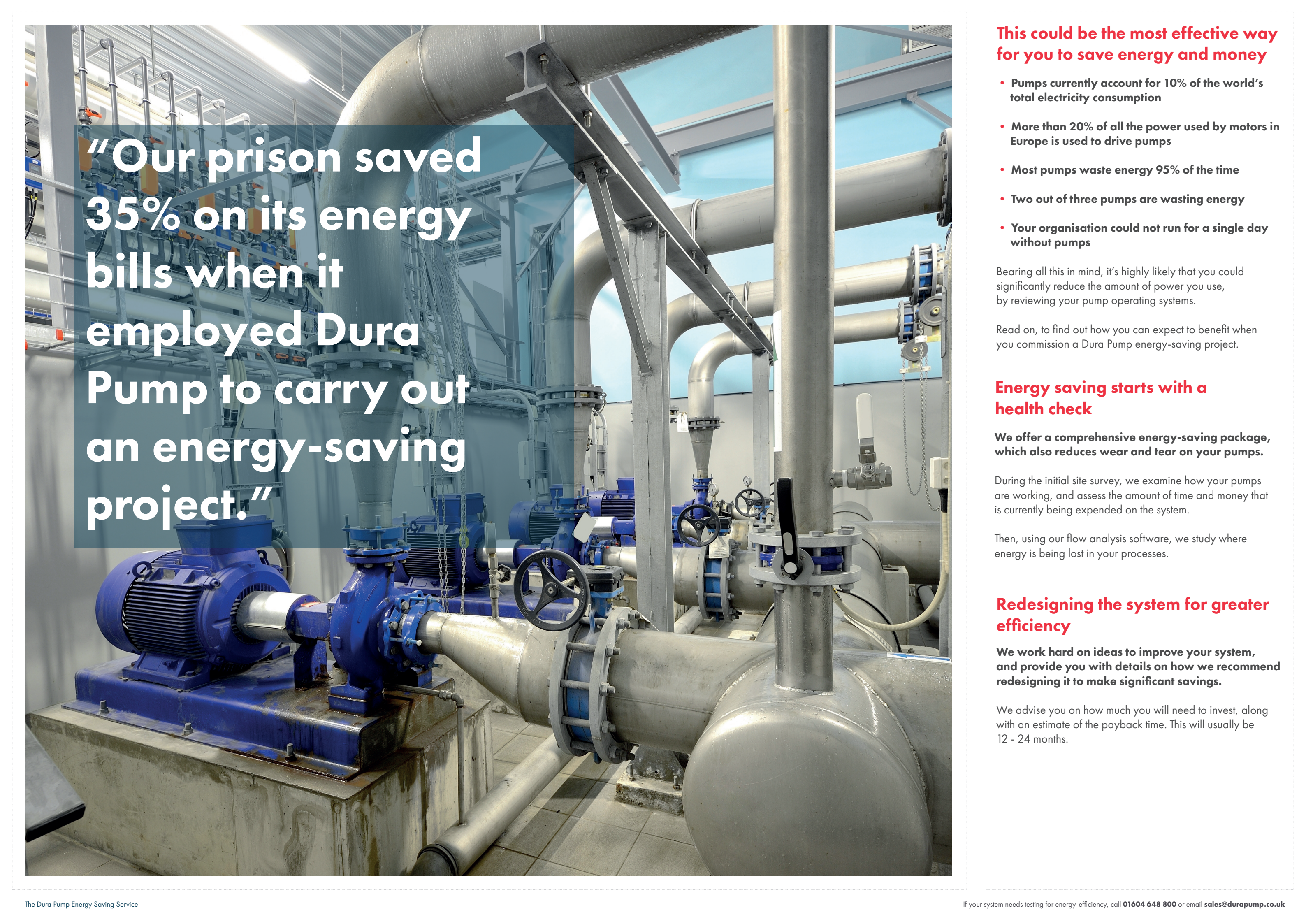


**When you need to  
make significant  
energy-savings...**

**...it's time to call in  
Dura Pump**





**“Our prison saved 35% on its energy bills when it employed Dura Pump to carry out an energy-saving project.”**

## **This could be the most effective way for you to save energy and money**

- Pumps currently account for 10% of the world's total electricity consumption
- More than 20% of all the power used by motors in Europe is used to drive pumps
- Most pumps waste energy 95% of the time
- Two out of three pumps are wasting energy
- Your organisation could not run for a single day without pumps

Bearing all this in mind, it's highly likely that you could significantly reduce the amount of power you use, by reviewing your pump operating systems.

Read on, to find out how you can expect to benefit when you commission a Dura Pump energy-saving project.

## **Energy saving starts with a health check**

**We offer a comprehensive energy-saving package, which also reduces wear and tear on your pumps.**

During the initial site survey, we examine how your pumps are working, and assess the amount of time and money that is currently being expended on the system.

Then, using our flow analysis software, we study where energy is being lost in your processes.

## **Redesigning the system for greater efficiency**

**We work hard on ideas to improve your system, and provide you with details on how we recommend redesigning it to make significant savings.**

We advise you on how much you will need to invest, along with an estimate of the payback time. This will usually be 12 - 24 months.



Carrying out the work

When we install your solution, we carefully plan the work to minimize your downtime, because we know how important continuity is to you.

We don't leave until we are confident that your system is running to optimum efficiency.

Maintenance and care

Preventative maintenance and care keep your system operating at full performance, so it continues to save energy and reduce wear and tear.

We offer a full service contract called Proserv, to give you complete peace of mind.

Variable speed drives

To save up to 80% of the energy used in systems where the demand fluctuates, we use variable speed drives, or inverter drives, that adjust the speed of the pump accordingly. By understanding your requirements and measuring the pressure or temperature of your system, we can use an inverter to control its performance and therefore save energy.

The drives also reduce the wear and fatigue on pumps, valves, pipework and all related items, which means they last longer, saving you money and downtime.

Eight questions to help identify savings

Your answers to these questions will facilitate our discussion with you.

- Do you have belt driven pumps?

Y N
- Do you have pumps larger than 5.5 kW?

Y N
- Do you have a valved back system?

Y N
- Do you have heating pumps larger than 4 kW?

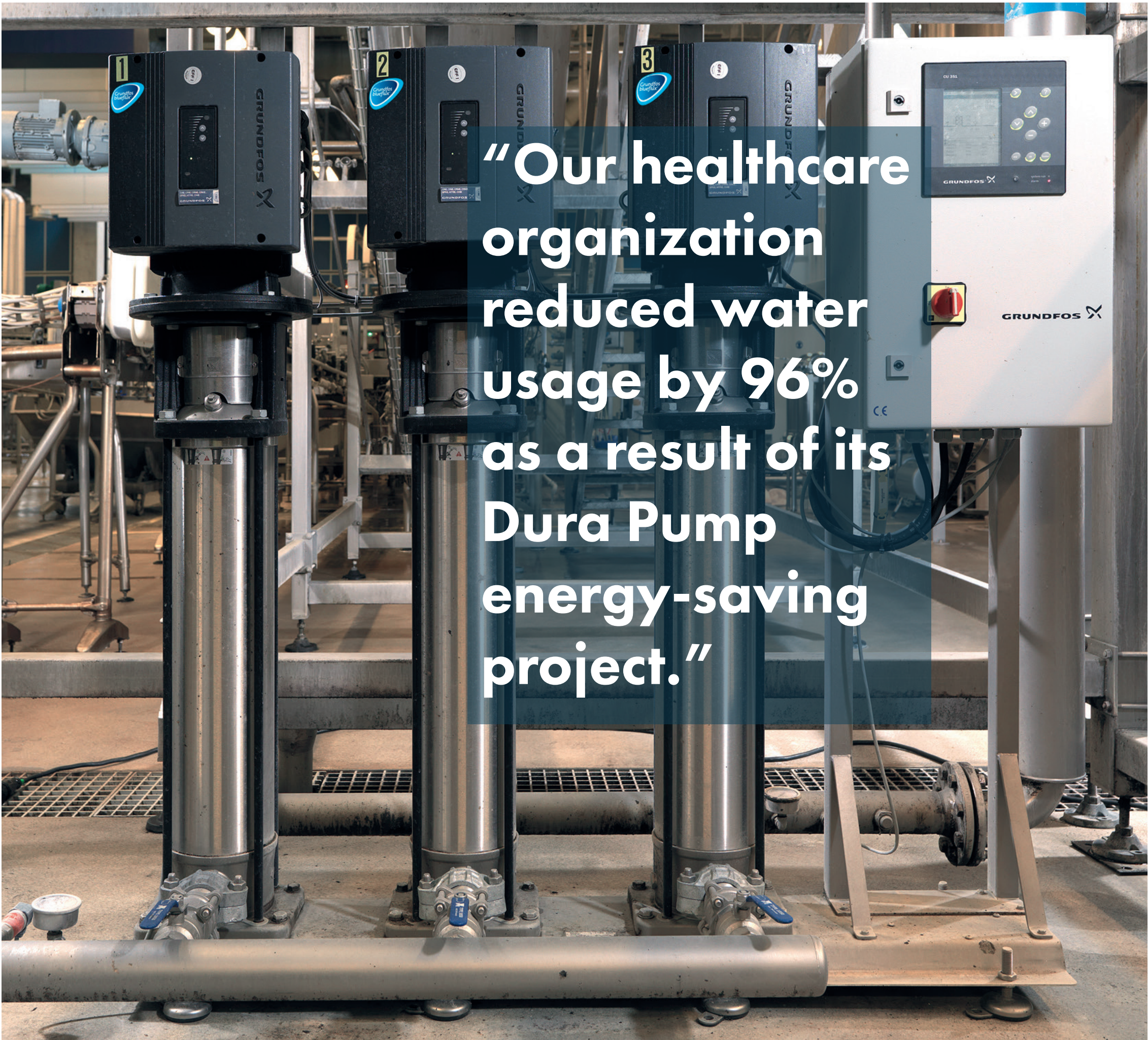
Y N
- Do you have fixed speed booster sets?

Y N
- Do you have a chilled water system?

Y N
- Do you have a system with pressure reducing valves?

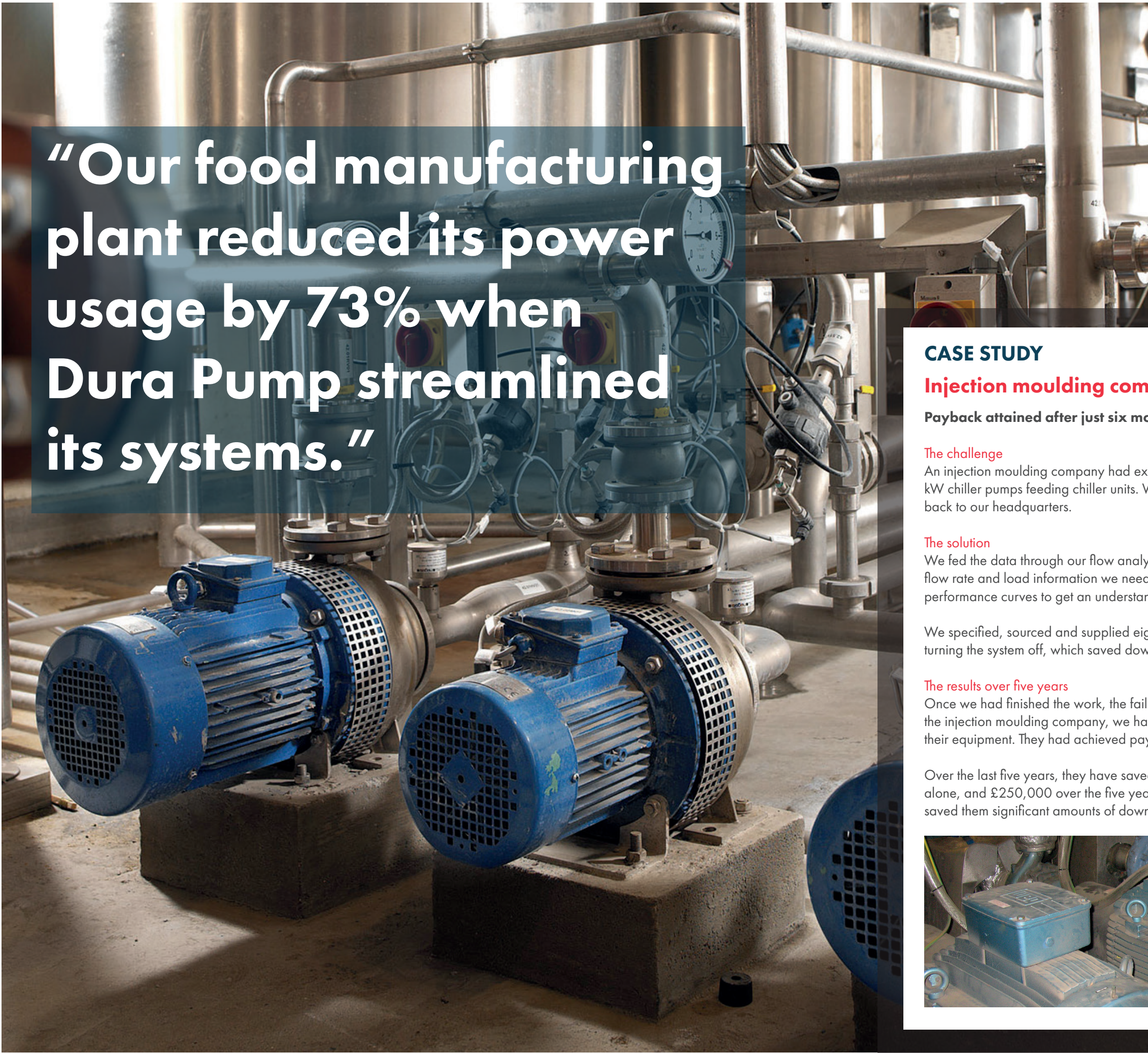
Y N
- Have you increased or reduced the system capacity?

Y N



“Our healthcare organization reduced water usage by 96% as a result of its Dura Pump energy-saving project.”





**“Our food manufacturing plant reduced its power usage by 73% when Dura Pump streamlined its systems.”**

## Your most overlooked power loss?

### Examples of savings across different industries.

- Retail Shopping Parks – On-going maintenance costs reduced by £120,000
- Storage and Distribution – 50% power savings
- Food Manufacturing – 73% reduction in power used
- Hotels – Over 95% savings on pump blockages
- Heat treatment company saved £31,000 per year
- Leisure Centre saved £8,500 per year

### CASE STUDY

#### Injection moulding company saves £250,000 over five years

Payback attained after just six months, and downtime due to pump failure is eliminated.

##### The challenge

An injection moulding company had experienced consistent failures over two years from its eight x 18.5 kW chiller pumps feeding chiller units. We made an initial site visit to collect data, and then brought that back to our headquarters.

##### The solution

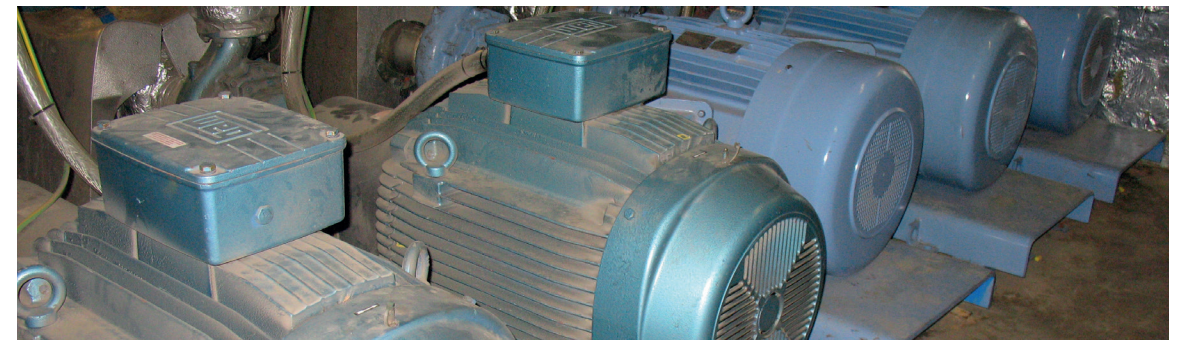
We fed the data through our flow analysis software, which gave us the necessary pressures, friction loss, flow rate and load information we needed to design a solution. We also analysed the existing pump performance curves to get an understanding of all the current flow rates and pressures.

We specified, sourced and supplied eight new 15 kW centrifugal pumps, and installed them without turning the system off, which saved downtime.

##### The results over five years

Once we had finished the work, the failures had been completely eliminated. As the trusted supplier to the injection moulding company, we have been in regular contact with them to help maintain and service their equipment. They had achieved payback within six months.

Over the last five years, they have saved 500,000 kWh per year, which is £50,000 per year in power alone, and £250,000 over the five years. In addition they have had zero pump failures, which has saved them significant amounts of downtime.







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FLOW THE WAY YOU NEED IT

PROSERV  
MAINTENANCE SERVICES

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PUMP SYSTEMS

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