

# Elevating Textile Operations

**GRUNDFOS** 

Possibility in every drop



**APAC region is expected to drive nearly \$2.1T in sales by 2033.**

**Textiles represent 2.3% of India's GDP**

**Textiles represent 13% of Bangladesh's GDP**

## The textile industry is growing and evolving

The textile industry is defined by fast-paced innovation, high-volume production, low costs, thin margins, and challenging operating conditions. However, textile manufacturing involves the use of vast quantities of water and energy. The wastewater released into the environment impact communities and local ecosystems significantly, turning manufacturing operations unsustainable.

Fortunately, these practices are changing and the industry is evolving. With the combined efforts of brands, manufacturers, employees, and community members, the focus has shifted to reducing energy and water consumption and treating wastewater before release.

Manufacturers are now adopting practices that optimize resource utilization, build technology-led solutions, and integrate sustainable practices across operations.

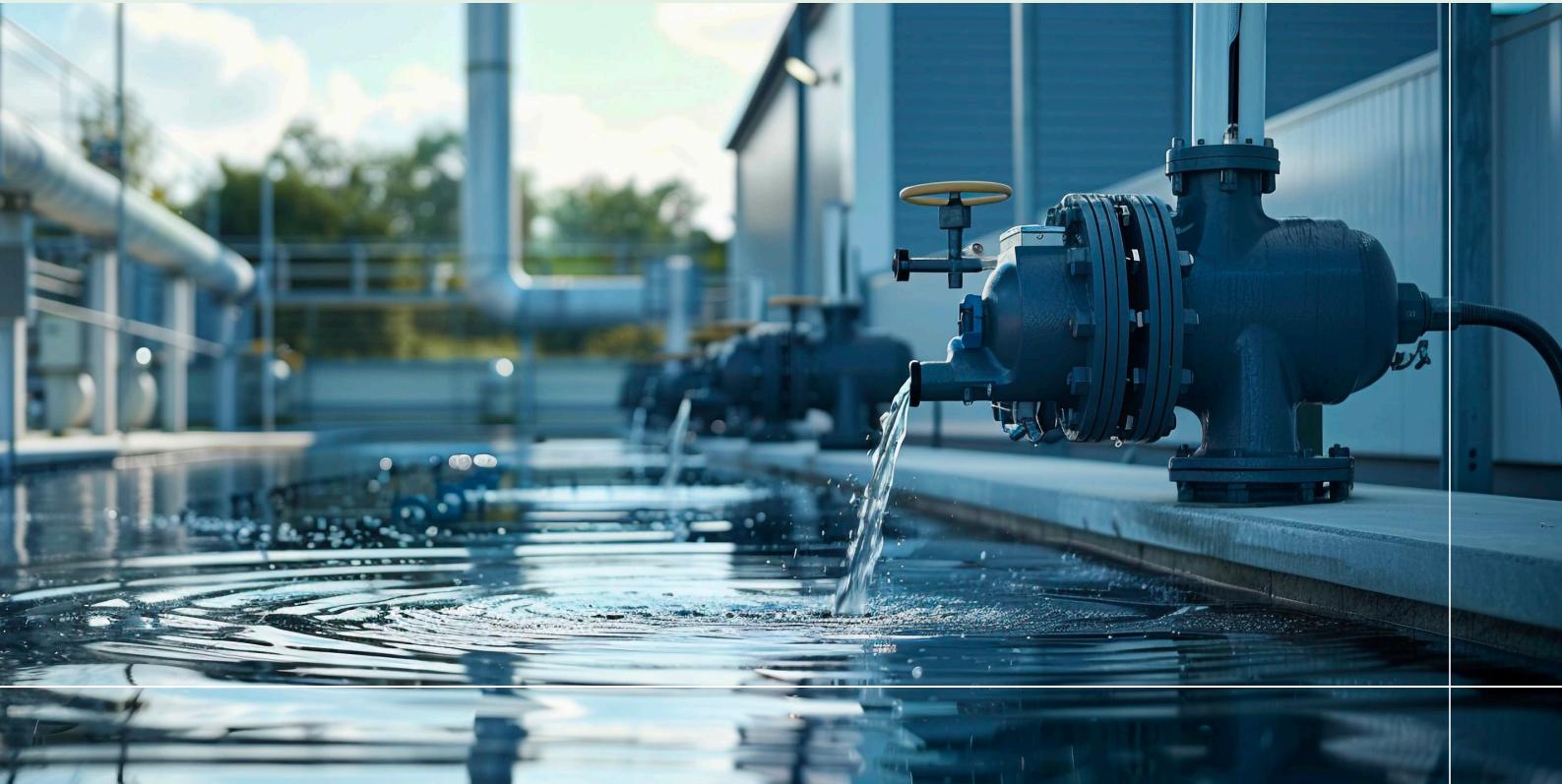
With the industry embracing efficiency and sustainability in operations, they are able to create new goods and services for which they can command higher prices, increase profitability, and exceed customer expectations.

## The growth forecast

Valued at \$1.84T in revenues in 2023, the global textile market is expected to grow at a CAGR of 7.43% from 2024, reaching nearly \$3.8T by 2033.

# Overcoming challenges with intelligent solutions

Amidst the changing regulations and dynamic market shifts, intelligent pumping solutions are helping manufacturers drive sustainable, profitable, and future-proof operations. Let's dive deeper:



## CHALLENGE

### Ensuring operational continuity

Textile manufacturers are held to strict quality and delivery timeframes. Maintaining production throughout is crucial for business. While textile producers can't control every condition, they can improve their operations.

## SOLUTION

### Grundfos' intelligent pumping solutions

It provides automation and control for water supply, water treatment, and wastewater treatment.

It ensures real-time visibility into operations and alerts on operational anomalies for proactive or preventive maintenance.

By maintaining equipment, manufacturers create sustainable processes that improve uptime and production throughput.

## CHALLENGE

# Keeping pace with regulatory standards

Governments are increasingly passing wastewater treatment regulations to protect the environment, like the Zero Liquid Discharge (ZLD) regulation in India, which requires industries that produce large amounts of wastewater to treat wastewater, enable easy separation of solid and liquid waste, and reuse water in production streams.

## SOLUTION

# Grundfos' wastewater processing solutions

Grundfos has more than 40 wastewater processing solutions that meet ZLD and other regulations

It helps manufacturers reduce energy and water use



## CHALLENGE

# Combating rising production costs

Brands prefer textile manufacturers with low-cost, high-quality production. Energy consumption accounts for 85% of company's spend, increasing costs.

Textile producers, therefore, must increase operational efficiency, reduce cost structure, and strengthen margins.



## SOLUTION

# Grundfos' intelligent pumping solutions

It reduces energy use by 20-60%, enabling preventive and proactive maintenance

It reduces OPEX significantly, boosting profitability



#### CHALLENGE

## Winning new business as a sustainability leader

While sustainable fabrics cost 2.5-4X more than commonly used fabrics, brands are giving preferences to manufacturers with sustainable practices.

#### SOLUTION

## Transparency through energy and water audits

Manufacturers can demonstrate sustainability through audit reports

This can help manufacturers show progress and charge a higher price

They can move upmarket and establish their position as sustainability leaders

CHALLENGE

## Securing Financing for Green Growth

Financial institutions are increasingly using sustainability criteria to make lending decisions. A higher environmental, (ESG) score is required to lower the cost of capital.

SOLUTION

### Grundfos's sustainability audit

It can ensure their sustainable initiatives find the right capital support on time

This data can help build a strong case for favorable lending terms





## Differentiate with Grundfos

Competing on cost alone may harm your long-term profitability, with production and labor costs rising and buyers moving to cheaper regions.

Make sustainable processes your differentiator with Grundfos's intelligent pumping solution, enhancing operational continuity, cutting energy and water use, and treating wastewater. Leverage technology with demonstrated impact to elevate your operations and position yourself as a sustainability leader, commanding better prices to improve profitability.

# Gain the Grundfos advantage



## Water management

### Effluent treatment

Our pumps, mixers, flow makers, and diffusers are designed to handle the corrosive and chemically diverse effluents from textile processes.

### Water recycling

Our pumps support water recycling systems, enabling factories to reuse water, reducing overall consumption and minimising environmental impact.



## Process optimization

### Dyeing and finishing

Our pumps are specifically designed to meet the large water demands of these processes, managing fluctuating water demands while ensuring efficient and precise water use.

### Chemical dosing

Our dosing pumps provide accurate and controlled dosing of chemicals through automation, reducing manual errors, improving safety, and enhancing operational efficiency.



## Energy efficiency

### Energy saving technologies

Our pumps are designed for energy efficiency, with features like Variable Frequency Drives (VFDs) that adjust motor speed based on demand.

### Digital solutions

Our smart digital dosing pumps that ensure precise chemical dosing, reduce chemical waste, and improve process efficiency for better resource management.



## Sustainability and compliance

### Environmental impact

We help textile manufacturers comply with stringent environmental regulations by providing reliable, efficient, and compliant wastewater treatment solutions.

### Sustainability goals

Our pumps are designed to support sustainable practices, helping manufacturers reduce their environmental footprint and contribute to broader sustainability goals.

## Our services that deliver impact



Intelligent textile tech, tailored to your business



Energy-efficient pumps that reduce OPEX



40+ ZLD solutions that increase wastewater reuse



Energy audits to demonstrate impact



A global service network at the ready

## Results that speak volumes

**20% -  
60%**

Energy savings across textile applications

**50%**

Reduced energy required for a boiler feed application

**30%**

Energy reductions for textile manufacturer's ZLD treatment

**30%**

Total OPEX savings for running an evaporator for 6th stage RO for ZLD treatment





## About us

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# **Every one of us is impacted by water's flow.**

At Grundfos, we want to ensure it's accessible and reliable for all – to keep water flowing, while reducing the energy consumption that leads to increasing emissions. We're driven to take on the world's water and climate challenges, developing solutions together with our customers, partners and suppliers that touch millions and millions of people every day, without most even noticing it.

Discover more about our intelligent, energy-saving pump and water solutions for water utilities, industries and buildings, and the people behind them on our website.





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