

Climate Transition  
Action Plan 2025

# Our approach to climate action

GRUNDFOS 

Possibility in every drop



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### Front page:

A solar-powered floating pump station supplies water to Mont Rouge Olive Estate's olive groves, showcasing sustainable irrigation in South Africa's Little Karoo.

Grundfos helped Mont Rouge Olive Estate overcome daily power outages by installing a solar-powered irrigation system using CR booster pumps, NK end suction pumps and Renewable Solar Inverters. With smart PowerAdapt technology and single axis solar trackers, the system delivers reliable water supply, cuts energy costs and keeps the olive groves thriving without the stress of grid failures.

[Learn more](#)



Introduction



Our plan




Our impact




Working together

# Welcome to our climate action journey

 Belgium

Grundfos helped Brewery Huyghe reduce energy and water consumption by installing intelligent, speed-controlled e-pumps and an advanced wastewater treatment solution, enabling water reuse, pump performance optimisation and energy reductions.

 [Learn more](#)

# Letter from our CEO and Chair

## Today, we are experiencing climate change all around us.

We see it in the weather with more floods, stronger storms and longer heatwaves. We notice it when a favourite item is missing from the grocery shelf because a supply chain was disrupted by a disaster. We feel it when the power goes out during extreme weather conditions, reminding us how vulnerable our systems can be.

At Grundfos, we experience climate change most directly through water - how it moves, how it is managed and how it is increasingly under pressure. The demand for water is increasing. A growing population means more food and goods to produce, more homes to heat and cool, more technology to power. All of this depends on water – and, importantly, the energy required to move it.

So how do we deliver more of this precious resource without adding to the problem by using more energy, and further stressing the climate?

Water is central to our business and our purpose. That's why we see water

as one of the most powerful levers available to deliver practical, scalable climate action. Every time we move, manage or treat water, energy is consumed. When we do this more efficiently – or better yet, when we use even less water – we can reduce emissions significantly and improve resilience.

As a global leader in water and climate solutions, we act where our impact is greatest. In commercial buildings, our intelligent pump systems optimise heating and cooling, reducing energy use and emissions. In homes, our energy-efficient circulators support sustainable comfort. In industry and data centres, our circular water technologies improve efficiency while lowering environmental impact. In water utilities, our solutions expand access to safe water.

These are some of the ways we are driving climate progress – through innovation, efficiency and partnership. And we know there's more to do.

Welcome to this first edition of our Grundfos Climate Transition Action Plan, our blueprint for climate progress. It sets out how we are

decarbonising our operations and supply chain and how we help customers advance their sustainability goals through intelligent water and climate solutions.

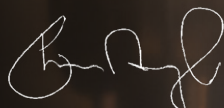
We do not have all the answers, and we will not solve these challenges alone. But we are committed to delivering on our net zero targets and working with partners who share our ambition.

Welcome to our journey.

Sincerely,



**Poul Due Jensen**  
Group President, CEO



**Claus Aagaard**  
Chair of the Board of Directors



# Climate and water are deeply connected

It is time to break the chain and move, treat, and manage water using less energy.

As populations grow, cities expand and consumption rises, our planet's vital systems are under increasing strain. Water and energy sit at the heart of this challenge and at the centre of the solution.

Climate change reveals itself most clearly through water impacts. Droughts threaten food security. Floods damage infrastructure. Rising seas displace communities. Scarcity disrupts economies and ecosystems, and business continuity depends on sustainable water management.

This is the familiar story of water as a risk. However, these realities also point to where water can be an essential part of the solution.

Imagine moving, managing and treating water in water-dependent and energy-intensive industrial processes without increasing emissions. Helping homeowners cut electricity bills through more efficient water movement. Enabling data centres and buildings to optimise energy and water use through real-time insights. Equipping communities with technology that tracks water flow from incoming weather events to prepare for disaster before it strikes.

This is where our opportunity is, and it remains largely untapped. Unlocking it requires action, innovation and a shift in how we think about moving, treating, and managing water using less energy.



# A transformation powered by purpose

Our journey began in 1945 with a single pump built to help a local farmer. That spirit of innovation and responsibility has guided us ever since. From the beginning, we have believed in better: better performance, optimised efficiency and improved quality of life for people.

Over the decades, we have pioneered technologies that redefined what pumps and water systems can do. In the 1980s, we embedded electronics to reduce energy use. By the 2000s, innovations like the solar-powered SQFlex and energy-saving ALPHA Pro set new standards for efficiency and sustainability.

Today, we are more than a pump manufacturer. We are a global provider of intelligent, energy-efficient water and climate solutions. We have embedded sustainability into our business model, introduced internal incentives to cut emissions and launched our own performance indicator, **REEP**, to guide innovation and track progress. This means that across Grundfos we measure on a monthly, quarterly and annual basis the ratio of how many energy-efficient products we have sold out of our total sales.

We have expanded our focus from individual products to integrated systems and digital services that help customers optimise performance, reduce waste and lower emissions across buildings, homes, industries and utilities.

Now, through our Ignite'27 strategy, we are accelerating once more. We are not only decarbonising our own operations. We enable our customers to do the same, and bring our entire value chain along with us.

We seek to unlock the potential of water as a powerful climate solution.



### Rate of energy-efficient products (REEP)

REEP is our key indicator of climate impact. It measures how many of our sold products are speed-regulated and energy-efficient, adjusted for their power size and grid factor. A higher REEP score means more customers are choosing solutions that help reduce energy use and emissions.



Grundfos was founded in 1945 by Poul Due Jensen, whose belief that the world is full of problems that can be solved in better ways still guides our purpose to pioneer solutions to global water and climate challenges and improve quality of life.



Launched in 2025, the TPE3 pump builds on Grundfos's legacy of energy-efficient innovation by reducing energy use, lifecycle costs and CO<sub>2</sub> emissions through intelligent design.



Since pioneering solar-driven pump systems in 1982, Grundfos has continued to innovate with solutions like the SQFlex, introduced in 2002, offering flexible, sustainable water access powered by solar energy in remote areas.




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# A commitment to a sustainable future in action

 Germany

Grundfos helped future-proof a German home by installing energy-efficient ALPHA and COMFORT pumps that reduced gas consumption, optimised hot water circulation and minimised water waste, delivering comfort and sustainability for the homeowner.

[!\[\]\(2b376d1a92330ab09dad2665d2f89bf5\_img.jpg\) Learn more](#)

# Introducing Grundfos' Climate Transition Action Plan (CTAP)

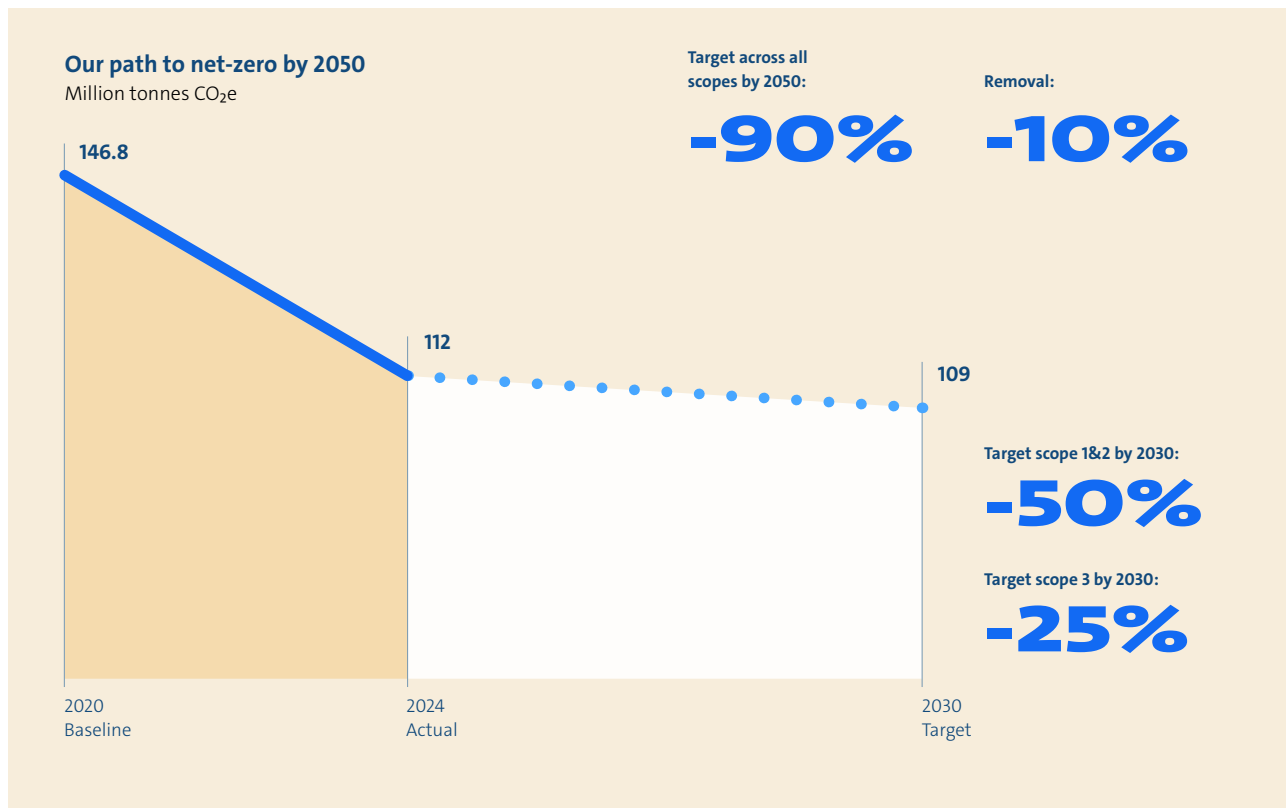
In 2022, Grundfos became the first water solutions company to have both near- and long-term net-zero targets approved by the Science Based Targets initiative (SBTi).

We've committed to reducing absolute scope 1 and 2 emissions by 50% and scope 3 emissions by 25% by 2030, from a 2020 baseline. By 2050, we will cut emissions across all scopes by at least 90% and neutralise the rest through permanent removals.

## Now, ambition becomes action.

The Grundfos Climate Transition Action Plan (CTAP) is our strategic blueprint for driving change by focusing on where we want to make the greatest impact.

Our actions are anchored within four impact areas:



- Decarbonising Grundfos** We are transforming how we operate and power our business.
- Decarbonising our supply chain** We are working with suppliers and partners to reduce emissions from source to end-of-life.
- Decarbonising our customers** We are transforming our portfolio to enable our customers to reduce their own emissions through energy-efficient products, intelligent systems and digital services.

This is our journey towards a net-zero future.

# Grundfos' climate transition impact areas

We focus our sustainability efforts where we believe they can have the greatest impact. This means decarbonising our operations, our supply chain and key areas across our value chain. Most importantly, we help our customers reduce emissions during product use, where the majority of our carbon footprint occurs.

## Decarbonising Grundfos



### Own operation

Emissions from owned and controlled sources, such as factories, and emissions from the generation of purchased electricity.

**76**

thousand tCO<sub>2</sub>e

## Decarbonising our supply chain



### Purchased goods and services

All upstream emissions from direct and indirect purchased goods and services.

**1,000**

thousand tCO<sub>2</sub>e

## Other value chain categories



### Transportation and distribution

Emissions from delivering shipments to our customers, receiving components from suppliers or delivering to other Grundfos locations.

**85**

thousand tCO<sub>2</sub>e



### Business travel

Emissions from transporting employees for work activities using third-party vehicles like planes, trains, rental cars and taxis.

**47**

thousand tCO<sub>2</sub>e



### Employee commuting

Emissions from the use of personal cars, buses, trains, bicycles and air travel between employees' homes and workplaces.

**17**

thousand tCO<sub>2</sub>e



### End-of-life

Emissions from the disposal and treatment of products sold by Grundfos.

**3**

thousand tCO<sub>2</sub>e

## Decarbonising our customers



### Use of sold products

Emissions generated from the electricity used during a 10-year use phase of the products we sold.

**111,000**

thousand tCO<sub>2</sub>e

**1%**

**99%**

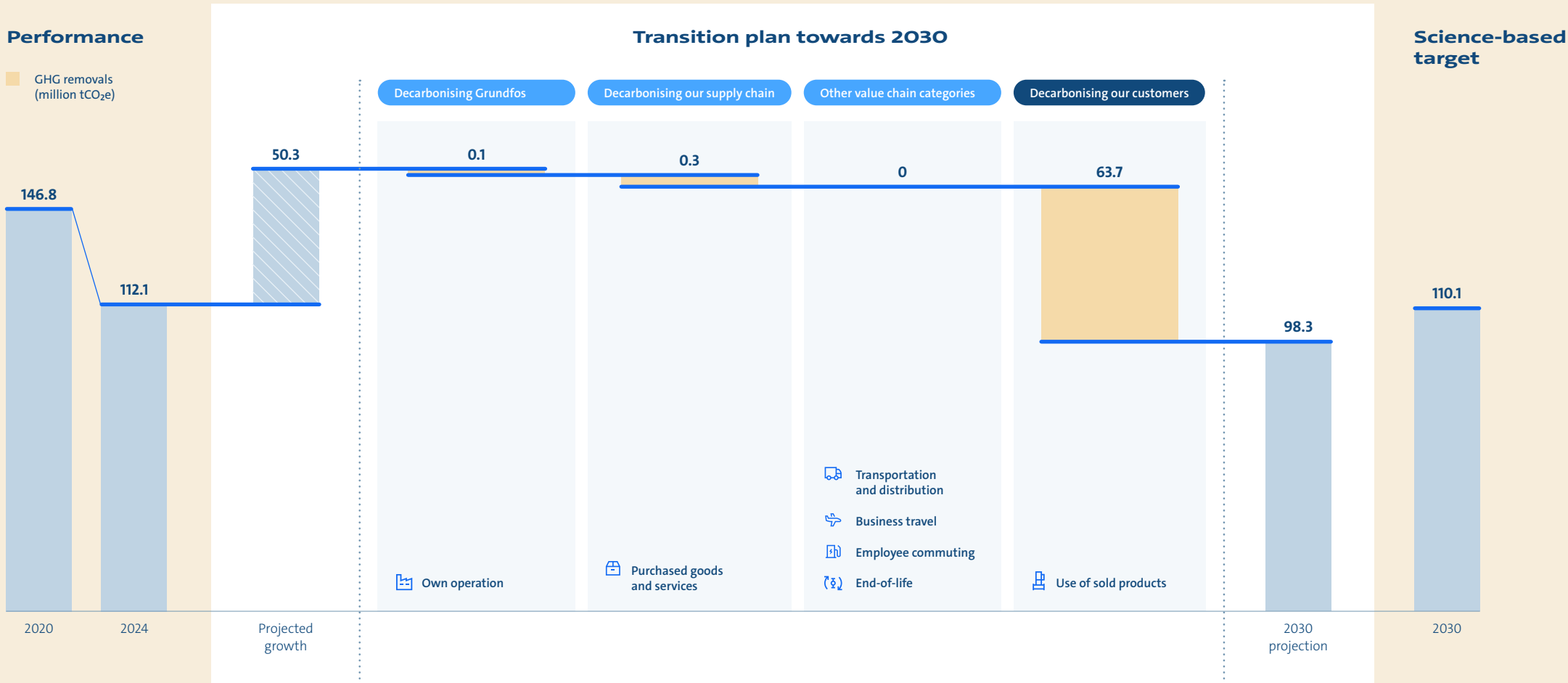
Metrics are based on 2024 performance

# Climate transition plan towards 2030

At Grundfos, we reduce emissions by improving our own operations, collaborating with suppliers and designing more energy-efficient products. These four areas form the foundation of our decarbonisation efforts across the business as we look towards 2030 and beyond.

## Performance

GHG removals (million tCO<sub>2</sub>e)





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# Where climate ambition becomes impact

USA

Grundfos helped a San Francisco apartment building cut its energy use by 25% a year by upgrading an old water pressure system, saving power, reducing emissions and keeping water flowing smoothly for residents without disruption.

[Learn more](#)



# Decarbonising our customers



## Scope 3, category 11: use of sold products

Our customers are at the heart of our climate ambition. We do not just deliver pumps and water treatment solutions. We co-create solutions that help them meet the growing demands of a changing world while cutting emissions and conserving resources.

This is also where we make our biggest impact. Around 99% of our total carbon footprint comes from our products when in use. That means when we improve the efficiency of our solutions, we reduce our emissions and so do our customers.

In commercial buildings, we keep hospitals, schools, airports and data centres running efficiently with intelligent solutions for heating, cooling, water and wastewater. In homes, we deliver hot water faster and more efficiently, even when pressure needs a boost. In industries, we help customers with optimised output whilst using less energy, water and other resources (e.g. chemicals). In water utilities, we optimise every drop, from groundwater extraction to wastewater transport.

We do this through our three decarbonisation levers:



### Energy-efficient pumps

Our market-leading speed-regulated pumps use significantly less energy than traditional models, helping customers cut emissions while maintaining high performance.



### Intelligent water and climate solutions

Our systems use smart controls and real-time data to optimise use of energy and water, reduce waste and improve reliability.



### Digitalisation, energy optimisation services and business models

Our digital tools and service offerings help customers monitor performance, identify inefficiencies and extend product life. New business models make it easier for our customers to adopt sustainable technologies at scale.

## How we measure progress

To track our progress, we have developed an internal metric called REEP, which stands for **rate of energy-efficient products (REEP)**. REEP measures how many of our sold products are speed-regulated and energy-efficient. A higher REEP score reflects that more customers are choosing solutions that actively reduce emissions, making it a key indicator of our climate impact.

## Dependencies

To fully realise our potential in decarbonising our customers, we rely on several key enablers:

- Supportive policies and regulations that accelerate the adoption of energy-efficient technologies
- A skilled and future-ready workforce equipped to meet evolving customer needs
- Locally relevant solutions tailored to grid conditions, water challenges and market demands

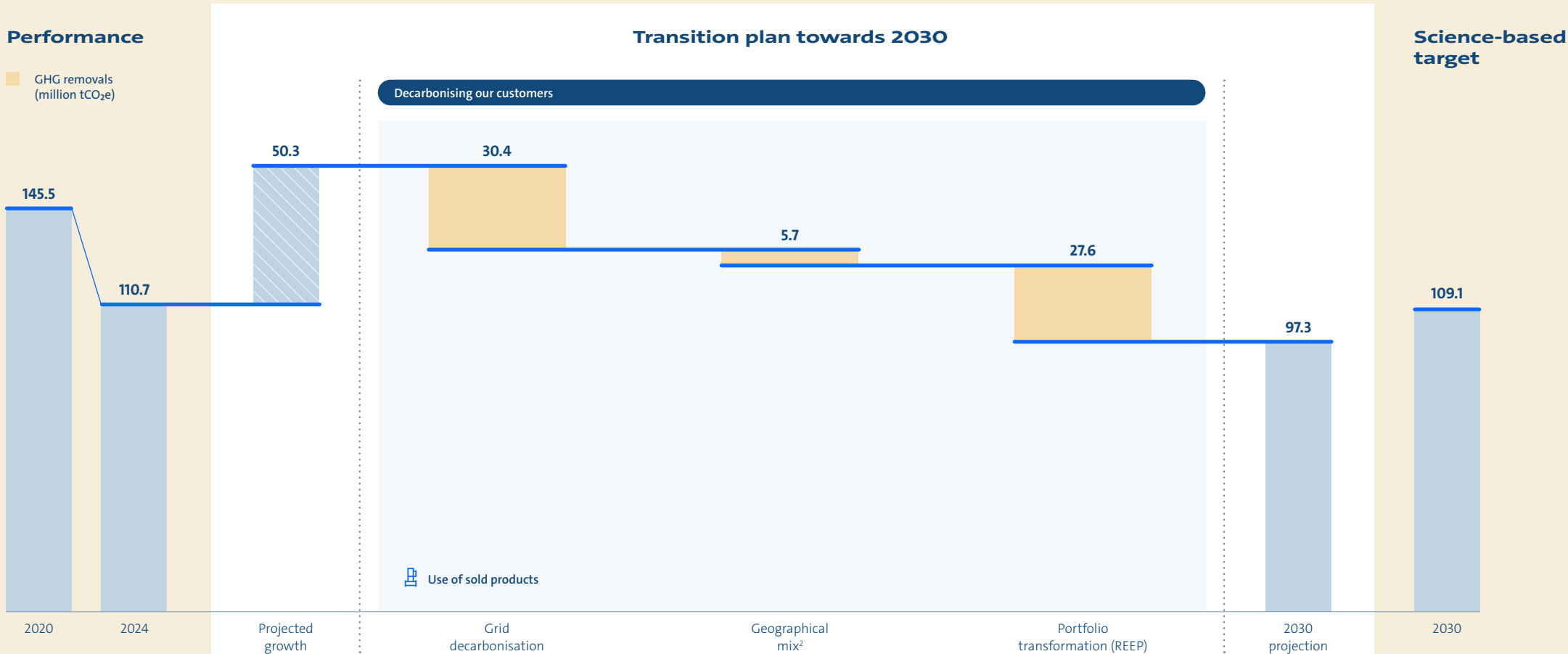


# Use of sold products decarbonisation roadmap

At Grundfos, 99% of our emissions come from the use phase of our products, making our energy efficient products our strongest lever for impact. We need to invest in smarter pumps and drives to reduce energy consumption by at least 37% compared to standard solutions and lead the transformation<sup>1</sup>.

## Performance

GHG removals (million tCO<sub>2</sub>e)



<sup>1</sup> Source: Grundfos calculation based on data in "European Commission, 2018. Ecodesign Pump Review" report.

<sup>2</sup> Captures change in emissions associated with shifts in geographical distribution of where our products are sold. (sales regions with more or less carbon intense electrical grids).



# Decarbonising buildings

Today, more than half of the world's population lives in urban areas, and by 2050, that share is expected to grow to 68%.<sup>1</sup>

Imagine a future where six billion people live in vibrant, growing cities. Where buildings are more than just structures; they are the heartbeat of urban life. Hospitals, workplaces, hotels and homes must not only withstand the effects of climate change but actively enable life to thrive.

## The dual challenge of the built environment

To get there, we have to recognise the dual challenge in front of us. With 80% of the buildings that will exist in 2050 already standing, we must design better new buildings and transform existing ones to meet the demands of a changing world. This requires a fundamental shift in how we build, renovate and operate the spaces we rely on every day.

## Looking ahead at future buildings

The future of buildings is being shaped by powerful shifts. Cities are expanding rapidly, creating urgent demand for smarter, more efficient systems to manage water, heating and cooling. Climate change and stricter regulations are raising the bar, pushing buildings to become net-positive and circular by design. At the same time, digital technologies like the Internet of Things (IoT) and Artificial Intelligence (AI) are transforming how buildings are monitored and managed, while electrification is opening the door to cleaner energy.

Water and climate solutions are essential to how buildings will perform in the future. They must help buildings handle extreme weather, cut emissions and use resources more efficiently. That means smarter systems, better technologies and solutions that deliver measurable impact.



<sup>1</sup> United Nations



## Priority actions for portfolio transformation and supporting activities



### Energy-efficient pumps

#### Enhance our energy-efficient product portfolio

To meet the growing demand for sustainable buildings, product innovation must prioritise efficiency and circularity. Grundfos is investing in expanding its energy-efficient product and system offerings while embedding circular principles from design to end-of-life.

#### Become a trusted decarbonisation partner

As buildings evolve to meet climate goals, energy efficiency becomes a cornerstone of decarbonisation. Grundfos supports this shift by delivering high-efficiency water, wastewater and heating, ventilation and air conditioning pump systems that integrate seamlessly with renewable energy sources.

#### Drive new standards for energy-efficient systems

Future-ready buildings demand higher performance and lower environmental impact, guided by strong regulatory frameworks. Grundfos plays a leading role in shaping these standards, helping to raise the bar for energy efficiency in both new and existing buildings.



### Intelligent climate and water solutions

#### Deliver high-impact solutions for district energy and data centres

District Energy is a cornerstone in decarbonizing cities, utilizing surplus heat from e.g. data centers, balancing the power grid through thermal storage and integrating renewable energy sources. Grundfos provides solutions that improve the energy balance and efficiency in district energy and data centers, integrating heat and water re-use as part of the solution.

#### Strengthen water management in commercial buildings

Water is becoming a critical resource in commercial buildings, with regulations and climate pressures driving the need for smarter management. Tomorrow's buildings will rely on intelligent systems that deliver water precisely where and when it's needed. Grundfos provides solutions that reduce water use through precision and control, advance resilience, and are exploring smart digital technologies.



### Digitalisation, services and business models

#### Expand digital services for smarter buildings

Smart buildings of the future will rely on digital solutions to optimize performance, reduce costs, and improve sustainability. Grundfos is expanding its digital services with tools like *Grundfos Connect* for monitoring, optimisation and analytics, *EO Tools* for energy checks, and *Grundfos GO* for mobile diagnostics, helping customers achieve greater efficiency and reliability.

#### Integrate systems within building ecosystems

Net-zero buildings require seamless integration of multiple systems, from HVAC to energy management. Grundfos is developing fully integrated solutions that work with the broader building ecosystem to maximise efficiency and minimise emissions.

[Learn more about how we work with commercial buildings](#)

#### Cases

### Grundfos in action

#### London

Digital Realty partnered with Grundfos to improve the energy efficiency of its data centre cooling. The system uses distributed pumping and intelligent controls to reduce energy use by up to 95%, helping to lower emissions and cut operational costs in one of the world's most energy-intensive industries.

[Read more](#)

#### Dubai

The Dubai government is on a mission to retrofit 30,000 buildings by 2030, aiming to slash the city's energy demand by 30%. Partnering with Taka Solutions, a local energy consulting firm, we tackled a three-building retrofit project to address oversized and inefficient AC systems that were also causing noise disturbances for residents. With a Grundfos energy check and pump upgrade, these buildings have experienced an impressive 81% reduction in electricity usage and enhanced HVAC system efficiency, achieving a swift eight-month payback period.



[Read more](#)



# Decarbonising homes

Homes are more than just buildings; they are where life happens. They're places of comfort, safety and connection.

As the world changes, so too must our homes. The homes of the future will not only protect us, but also the planet. We must reimagine how homes use energy, water and technology to ensure both comfort and sustainability.

## Pumps and water solutions in tomorrow's homes

Buildings are responsible for 26% of global energy emissions,<sup>1</sup> and households consume nearly 12% of the world's water.<sup>2</sup> With populations growing and resources tightening, homes must become radically more efficient. Intelligent pumps and water systems will be central to this shift. These technologies will circulate hot water with precision, deliver instant access where needed, boost pressure in installations and remove excess water with minimal energy. By embedding these solutions, homes can offer both comfort and sustainability - cutting CO<sub>2</sub> emissions and conserving water without compromise.

## Trends shaping the future of housing

The future of housing is being shaped by three converging forces: climate urgency, urban expansion and digital transformation. As legislation tightens and extreme weather becomes more frequent, homes will need to be resilient, low-carbon, and water-wise. Rapid urbanisation, particularly in emerging economies, will demand smarter infrastructure in denser environments. At the same time, digital connectivity will unlock new possibilities, with billions of IoT devices enabling real-time control over energy and water use. Together, these shifts are redefining what it means to live well - not just comfortably, but consciously.

In response to these challenges and opportunities, we're taking bold steps to lead in water-based applications for the home. Our solutions are designed to optimise energy and water use, delivering the performance homeowners expect while supporting the planet we all share.

<sup>1</sup> Buildings - Energy System - IEA

<sup>2</sup> Statistics | UN World Water Development Report



## Priority actions for portfolio transformation and supporting activities



### Energy-efficient pumps

#### Convert to e-pump portfolio

Energy-efficient pumps will be essential in reducing household emissions. Grundfos is transitioning its circulator and booster portfolios to e-pumps, significantly cutting CO<sub>2</sub> emissions while maintaining high performance.

#### Maximise energy savings with circulator replacement

Replacing outdated circulators is a fast, effective way to improve energy efficiency in existing homes. Grundfos is driving this shift by promoting modern, high-efficiency models that deliver measurable savings.

#### Innovate heat pump systems for optimal efficiency

Heat pumps will play a central role in decarbonising residential heating. Grundfos supports OEMs with integrated pump and digital solutions like LIN and GO Balance to maximise system performance.



### Intelligent climate and water solutions

#### Save water and energy with hot water recirculation pumps

Reducing water waste and energy use will be key to sustainable home design. Grundfos' recirculation pumps deliver hot water only when needed, cutting both consumption and cost.

#### Provide water when it is needed

Future homes will rely on smart systems that adapt to real-time demand. Grundfos' pressure boosting solutions adjust flow automatically, ensuring efficient water delivery without excess energy use.

#### Leverage intelligent features

Smart control over heating, cooling and water systems will be vital to optimising home energy use. Grundfos integrates features like GO Balance and AUTOADAPT to ensure heating systems run only when and where needed.



### Digitalisation, services and business models

#### Integrate into the smart home with digital tools

Digital tools will empower homeowners to manage energy and water use more effectively. Grundfos is constantly exploring connected digital features. Tools, such as Grundfos HOME app and pump

solutions with connectivity features, empower homeowners to manage energy and water use more effectively, providing them with enhanced comfort, control, and sustainability benefits.

#### Amplify sustainable practices through circular business principles

Circularity will be a defining principle of sustainable living. Grundfos is advancing remanufacturing and waste-reducing practices to lower emissions without compromising quality, as well as working to further expand our take-back and remanufacturing programme.

[Learn more about how we work with domestic buildings](#)

#### Cases

### Grundfos in action

#### Europe

Many homes still rely on old heating circulators that use far more energy than they need to. Grundfos is making it easier to upgrade with the ALPHA GO range. Using the Grundfos GO app, installers can quickly identify outdated models and replace them with newer, more efficient pumps. The switch helps homeowners save energy, lower heating bills and improve comfort, without needing major changes to their system.

[Read more](#)

#### USA

Homeowners waste clean water every day while waiting for hot water to reach the tap. Grundfos helps solve this with its COMFORT recirculation pump, which delivers hot water instantly and reduces both water and energy use. In a typical home, this can save up to 45 m<sup>3</sup> of water each year and cut energy consumption by up to 90%, making daily routines more efficient and sustainable.



[Read more](#)

# Decarbonising industries

Industry is the beating heart of a progressing world. In our journey towards a net-zero future, helping industries decarbonise will be a crucial step.

The fast-paced world we live in demands strong and reliable output performance, which puts pressure on environmental challenges due to the industrial sector's significant greenhouse gas emissions and reliability on water.

## Industry's climate and resource impact

Today, industry is one of the largest contributors to climate and resource pressures. Manufacturing alone accounts for around 45% of global greenhouse gas emissions,<sup>1</sup> with major contributions from regions such as the EU, China, India and the United States.<sup>2</sup> Electricity demand continues to rise, outpacing both overall energy demand and GDP growth, driven by electrification, digitalisation and energy-intensive production.<sup>3</sup> At the same time, industry is the second largest user of water globally, responsible for nearly 39% of total water withdrawals in high-income countries.<sup>4</sup>

## Transforming industry with efficient solutions

To meet these challenges, industries must transform how they use energy and water. By 2040 and beyond, the most competitive and sustainable operations will be those that embrace intelligent, efficient technologies. Pump systems, for example, account for up to 40% of industrial energy use, yet only 15% are currently optimised.<sup>5</sup> With the right solutions, energy consumption can be reduced by 37%,<sup>6</sup> and in some cases as much as 80%, without compromising performance.

At Grundfos, we are working with partners to reimagine industrial processes, making them smarter, more efficient and more sustainable. Through intelligent water and climate solutions, we are helping industries become more efficient and accelerate the shift towards a decarbonised future.

<sup>1</sup> Ellen MacArthur, 2021, Completing the picture: How the circular economy tackles climate change

<sup>2</sup> IEA, 2022, Countries and regions and Our World in data, 2022, Annual emissions by world region

<sup>3</sup> Global trends – Global Energy Review 2025 – Analysis - IEA

<sup>4</sup> UNESCO, 2024, UN World Water Development Report

<sup>5</sup> Hydraulic Institute, 2023, Energy efficiency

<sup>6</sup> Source: Grundfos calculation based on data in "European Commission, 2018. Ecodesign Pump Review" report.





## Priority actions for portfolio transformation and supporting activities



### Energy-efficient pumps

#### Unlock energy and cost savings for customers

Optimising industrial energy use is essential to achieving a net-zero future. Grundfos designs and drives the transition toward high-efficiency speed regulated pumps and pump systems

that lower CO<sub>2</sub> emissions, cut energy costs and reduce the use of water and chemicals without compromising performance.



### Intelligent climate and water solutions

#### Enable water-saving initiatives

As industries face growing pressure to reduce water consumption, efficient water management will be key to long-term sustainability goals. Grundfos works with customers to implement purpose-built solutions that significantly reduce water use across operations. Our focus accelerates the industrial water recovery and reuse without compromising compliance or productivity.

#### Advance water circularity through smart reuse

As industries seek to reduce water and energy consumption, circular water management is becoming essential to sustainable operations. Grundfos helps end users with advanced water treatment solutions. This also contributes to reusing more water, keeping it in the loop and treating it only to the level needed for its next use, making it fit for purpose. This approach keeps water in a closed loop, significantly lowering energy use and treatment cost.



### Digitalisation, services and business models

#### Help end users track and reach sustainability goals

Transparent data and smart control are critical to measuring progress in industrial decarbonisation. Powered by our deep understanding of water, Grundfos iSOLUTIONS utilises intelligent pumps, cloud connectivity and digital

services. Together they enable real-time monitoring, remote control, fault prediction and system optimisation to help customers reach a new level of performance and advance their sustainability planning.

[Learn more about how we work with industry](#)

### Cases

## Grundfos in action

### Denmark

Grundfos partnered with State of Green to accelerate the green transition in industry by sharing scalable solutions that improve energy and water efficiency. Featured in the joint whitepaper *Towards a sustainable industry*, Grundfos showcases how smart pumping systems and circular water strategies can reduce emissions, cut costs and contribute to strengthening industrial resilience.

[Read more](#)



### UK

Carlsberg Britvic, one of the UK's leading soft drinks manufacturers, needed to increase production at its East London plant, but its water treatment system was holding things back. Grundfos delivered a full upgrade with energy-efficient e-pumps, smart controls and remote monitoring. The new system improved water quality, reduced energy use by 60% and helped Carlsberg Britvic meet rising demand while supporting its sustainability goals.

[Read more](#)

### USA

At a busy turkey processing plant in Virginia, frequent pump failures were causing costly downtime and maintenance headaches. Grundfos replaced the old setup with a high-pressure hydro system and smart controller, improving reliability and cutting energy use by more than 50%. The upgrade now saves the plant over USD 50,000 a year while keeping operations running smoothly.

[Read more](#)



# Decarbonising water utilities

At Grundfos, we are working towards a future where communities thrive through reliable access to clean water and climate-resilient infrastructure.

Achieving this vision means acting now to reduce emissions and build water systems that can adapt to a changing climate.

## The pressures on water utilities today

Water utilities face mounting pressure to reduce emissions while maintaining reliable service in the face of climate change. High energy consumption, particularly in countries with carbon-intensive grids, contributes significantly to their environmental footprint. Many utilities still rely on fossil fuels, and ageing infrastructure limits their ability to adapt. At the same time, they must manage growing risks such as water scarcity, flooding and system failures. Addressing these challenges requires smarter, more adaptive systems. Digital technologies will play a key role by enabling sustainable aquifer management, predicting and preventing flooding, sewer overflows and water system damage, and supporting remote monitoring to respond to local needs effectively.

## Focusing on resilient water systems

Resilient water systems will be essential to safeguarding communities against environmental pressures. As extreme weather events become more frequent and water demand rises, future-ready utilities must be able to withstand shocks and recover quickly. Our ambition is to help provide clean drinking water to 300 million people by 2030 and promote solar-powered irrigation to protect food production from climate disruption. Through global partnerships with organisations such as C40 and Global Water Intelligence, we are advancing innovation and knowledge-sharing to build water systems that are sustainable, efficient and equitable.





## Priority actions for portfolio transformation and supporting activities



### Energy-efficient pumps

#### Enable the growth of energy-efficient product sales

Accelerating the adoption of energy-efficient technologies is essential to reducing emissions across water utilities, and this can only be achieved through skilled, knowledgeable experts. Grundfos is investing in net zero training and tailored tools to empower its teams to understand customer needs and drive the uptake of sustainable solutions.

#### Driving innovation in energy-efficient solutions

To meet the demands of future-ready utilities, continuous innovation in energy efficiency is critical. Grundfos is advancing the development of high-performance, low-energy solutions that deliver on our promise to address the global water and climate challenges while maximizing value to our customers and communities. These solutions span the water value chain from intake to distribution and treatment including a suite of control-integrated and solar powered pumps that aim to maximize performance and efficiency while reducing energy use and carbon emissions.



### Intelligent climate and water solutions

#### Strengthen sewer security with strategic acquisition

Resilient wastewater systems are vital to managing the growing risks of urban flooding and infrastructure strain. Grundfos utilises its capabilities in sewer security, enabling us to focus on smarter monitoring and management of wastewater systems.

#### Advance flood prevention through digital monitoring

As extreme weather events increase, utilities need tools to anticipate and respond to flood risks. Grundfos is leveraging preventative digital monitoring such as Grundfos Connect Sewer Insights to help customers identify blockages in the system, uncover inflow and infiltration and prevent overflows. It allows them to take early action and reduce the impact of water-related disruptions drive by climate change.

#### Reduce water losses with pressure management

Minimising water loss is key to building efficient and sustainable distribution networks. Grundfos supports utilities with pressure management solutions that maintain optimal pressure to reduce system damage and detect when damage occurs.



### Digitalisation, services and business models

#### Enhance customer operations for sustainability

Digital transformation is critical to unlocking smarter, more adaptive water utilities. We enable this shift through our Digital Portfolio of solutions like such as Grundfos Connect Asset Monitor, Grundfos Connect Network Analytics, Grundfos Connect Demand Distribution, Grundfos Connect Machine Health, empowering customers to predict issues, prevent downtime and protect assets in their operations and reduce water and energy losses.

We're also helping water utilities unlock the financial value of energy efficiency by introducing innovative business models that tie long-term repayment to projected energy savings. Through strategic replacement and refurbishment, our approach not only supports carbon reduction goals but also transforms energy performance into a measurable return on investment.

[Learn more about how we work with water utilities](#)

#### Cases

### Grundfos in action

#### Colorado, USA

Aurora Water Taps Into Renewable Energy with Grundfos Co-Developed Technology Aurora Water, Colorado's second-largest water provider, has partnered with InPipe Energy to install the state's first HydroXS system - an in-conduit hydroelectric solution that generates clean energy from drinking water infrastructure. Co-developed with Grundfos, the HydroXS uses innovative pump-as-turbine technology to convert excess water pressure into renewable electricity. The 60-kilowatt system, installed at the Gun Club pressure regulator facility, is expected to produce 255,000 kWh annually, offsetting 3,400 tons of carbon emissions over its lifetime. This project supports Aurora's sustainability goals and showcases how smart water management can contribute to climate action and infrastructure resilience.

#### Germany

Grundfos helped a local water supplier in Germany cut energy use by 30% using its Demand Driven Distribution (DDD) technology, which automatically adjusts water pressure based on how much is actually needed, making the system more efficient and reliable. This smart setup also helps prevent pipe bursts and reduces maintenance.

[Read more](#)



# Decarbonising Grundfos

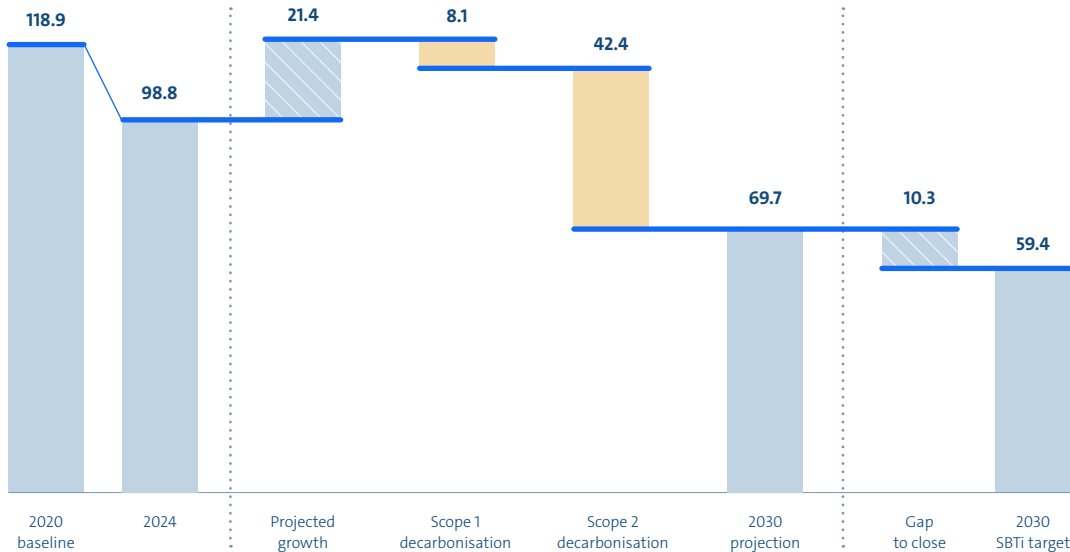
## Scope 1 and scope 2

We have direct control over scope 1 and scope 2 emissions, which come from our buildings, company vehicles, electricity and the energy we use for heating and cooling.

We refer to these as emissions from our own operations, and the steps we are taking to reduce them lay the foundation for our future vision of decarbonising Grundfos.

Based on our current roadmap, we remain on track toward our 2030 science-based target of cutting scope 1 and scope 2 emissions by 50%; however, a gap to close still exists. We are actively working to determine the optimal combination of actions and implementation plans to address this gap. Looking ahead, we will continue exploring opportunities to drive further energy optimisation and carbon emission savings in our operations across continents.

## Scope 1 and 2 towards 2030 tCO<sub>2</sub>e (group level)



## Priority actions

Actions	How we will implement actions	Baseline (2020) tCO <sub>2</sub> e	Actual (2024) tCO <sub>2</sub> e	2030 Target
<b>Using renewable energy</b>	<ul style="list-style-type: none"> <li>Switch to renewable energy sources to cut our carbon footprint.</li> <li>Install solar panels to generate onsite renewable electricity complemented by our pan-European power purchase agreement.</li> </ul>	118,870	76,482	50% reduction from baseline year

### Investing in energy efficiency programmes

- Reduce energy use by implementing Real-Time Monitoring (REM) in facilities to minimise energy consumption.
- Integrate new technologies that lower energy use in production.

### Expanding electric mobility

- Introduce electric vehicles (EVs) globally by 2027, with mandatory adoption in 38 countries to reduce transport-related emissions.
- Upgrade EV charging infrastructure to support employees, visitors and fleet drivers, enabling a smooth transition to low-carbon transport.

## Dependencies

Meeting our carbon reduction targets in operations depends on addressing several critical factors:

- New lower-carbon manufacturing technologies:** Requires major investment and access to suitable replacement technologies, which are not yet widely available.
- Electric vehicle (EV) adoption:** Depends on expanding public charging infrastructure, supporting long-distance travel and integrating EVs in acquired companies.
- Renewable electricity and policy support:** Relies on a stable supply of renewable energy and strong legislation to enable the shift away from fossil fuels.



# Decarbonising our supply chain

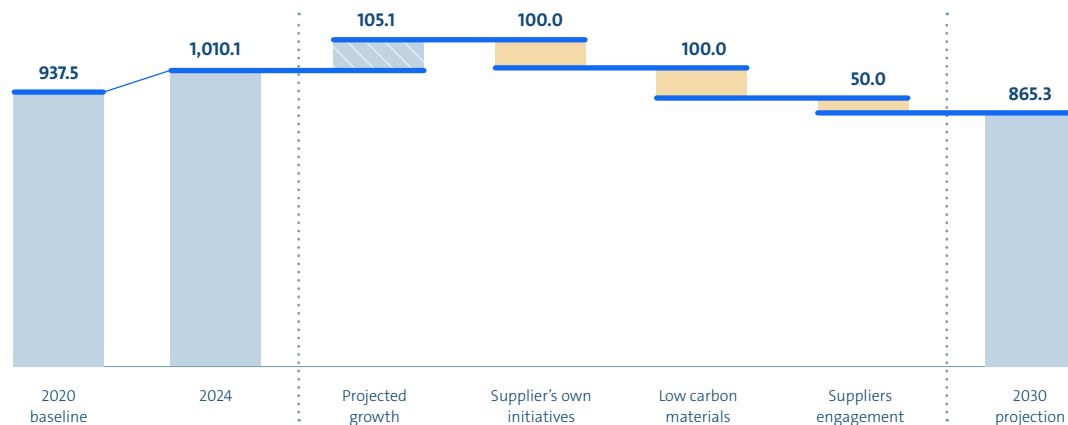
## Scope 3, category 1: purchased goods and services

Our commitment to sustainability extends beyond our customers and operations to our supply chain.

We hold ourselves and our suppliers to the highest standards of social and environmental responsibility by upholding human rights, maintaining labour standards, reducing carbon and water footprints, ensuring chemical compliance and responsibly sourcing of materials, including conflict minerals.

This shared commitment to transparency and sustainable practices is vital to our collective success. Decarbonising our supply chain means tackling all upstream emissions from purchased goods and services. Through this approach, we are delivering on our commitments to the CEO Climate Leaders Alliance under the World Economic Forum.

**Scope 3, Purchased goods & services**  
tCO<sub>2</sub>e (group level, not including separation brands)



## Priority actions

Actions	How we will implement actions	Baseline (2020)	Actual (2024)	2030 Target
<b>Driving supply chain decarbonisation</b>	<ul style="list-style-type: none"> <li>Track footprint progress, expand data sharing and conduct carbon maturity assessments to drive measurable impact.</li> <li>Strengthen capabilities through our resilience programme and academy, and celebrate top performers with our sustainability supplier award.</li> <li>Collaborate on material substitutions and adopt low-carbon materials.</li> </ul>	937,490 tCO <sub>2</sub> e	1,010,127 tCO <sub>2</sub> e	Included in 25% reduction from baseline year

### Dependencies

Successful supply chain decarbonisation depends on a few priority dependencies:

- Supplier engagement and maturity:** Depends on suppliers advancing their decarbonisation capabilities. Grundfos supports our partners' capacity building and raising awareness through our Sustainable Supplier Academy and Supplier Engagement Programme.
- Regulatory consistency:** Requires alignment between global and local regulations to avoid conflicts that hinder implementation and reporting.
- Data quality and assurance:** Relies on accurate, verifiable supplier data and third-party assurance to ensure credible emissions reporting.

### Advancing a strong sustainable supplier management programme

- Use EcoVadis assessments and Bureau Veritas audits to assess sustainability practices and drive continuous improvement.
- Reduce carbon and water footprints while promoting ethical business conduct and human rights across all supplier relationships.



Introduction



Our plan




Our impact




Working together

# Working together for progress and impact

 Denmark

The IWA and Grundfos Youth Fellowship is a collaboration for progress, equipping young leaders to address global water and climate challenges through shared expertise, international networking and skill-building opportunities.

 [Learn more](#)

# Sustainability and climate governance

We are embedding our climate transition plan into our governance to ensure we meet our commitments and contribute meaningfully to a sustainable future.

Climate governance is integrated into our broader sustainability governance model, which is anchored in the Board of Directors and cascades through Group Management and the Sustainability Council into group functions and divisions.

The Sustainability Council, made up of senior leaders, meets six times a year to align on key initiatives and track performance. Since early 2023, climate-related KPIs have been monitored quarterly by the Council, Group Management and the Board, ensuring consistent oversight and accountability across the organisation.

## Linking climate performance and remuneration

At Grundfos, we connect climate performance to leadership accountability to drive meaningful progress toward our net zero goals. Since 2023, executive and senior leadership remuneration has included sustainability KPIs focused on CO<sub>2</sub> reduction, embedded in both short-term and long-term incentive programmes. We also measure climate performance through our [rate of energy-efficient products \(REEP\)](#) indicator. Full details are available in our annual report.

## Sustainability governance

### Grundfos Holding's Board of Directors

The Board of Directors oversees strategy and implementation.

### Audit Committee

The Audit Committee oversees Grundfos' compliance with sustainability-related legal and reporting requirements.

### Group Management

Group Management is responsible for setting the direction for Grundfos' sustainability ambitions and allocating the appropriate resources to ensure delivery. Group Management is also responsible for signing off targets and prioritise initiatives to deliver on those.

### Group Sustainability

Group Sustainability lead the implementation of our sustainability framework and ambitions. The team advises the Sustainability Council with regular progress updates, ensures alignment with global standards such as the EU Corporate Sustainability Reporting Directive (EU CSRD) and the Science Based Targets initiative (SBTi), and provides expert support to group functions and divisions on planning and executing initiatives.

### Sustainability Council

The Sustainability Council consists of nine senior leaders representing Grundfos' group functions and divisions, the members are responsible for ensuring progress on goals and targets. The Council assesses and manages sustainability-related risks, impacts and opportunities. Progress and key risks, impacts and opportunities are communicated to Group Management, along with recommendations on the direction of sustainability ambitions.

### Group Finance

Group Finance manages ESG data and analysis, ensures compliance with the EU Taxonomy and maintains the monthly sustainability scorecard. It supports reporting and emissions calculations, and provides expert input to ensure data quality and consistency across the business.

### Climate Forum

The Climate Forum oversees alignment and collaboration on climate action across the organisation. Led by the Climate Director, it brings together divisional and functional leaders to share progress, exchange knowledge and coordinate cross-functional impacts.

# Climate policy and advocacy

We will advocate for policies that drive the global transition to net zero and accelerate the positive impact of Grundfos' end-user solutions.

We will continue to advocate for policies that support economy-wide transformation and will pursue broader support for these objectives at an international level, via forums such as the World Economic Forum's Alliance of CEO Climate Leaders, United Nations Global Compact and others.

## Climate policy & advocacy



## Our cross-cutting advocacy asks



### Support the global net zero transition

We support the alignment of national climate strategies and plans in key markets with 1.5°C pathway.



### Rapidly accelerate global energy efficiency progress

We accelerate deployment of energy efficiency measures globally and promote new ambitious policies in key markets.



### Promote climate adaptation and resilience

We promote stronger policy focus on climate adaptation and resilience by putting water sustainability at the centre of the climate agenda.



### Impact through collective action

We work together with customers, businesses and governments in our key regions to promote collective action to advance systemic solutions to water- and climate-related sustainability challenges in specific geographies.



### Promote a just transition

We respect human rights, promote decent work, engage meaningfully with stakeholders and advance social inclusion for impacted groups.



### Support electrification and the phase-out of fossil fuels

We support the electrification of industries and heating systems, and advocate for faster deployment of renewable energy in our key markets to enable energy-efficient solutions in a greener grid.



# Advancing a just transition

Achieving our net-zero target by 2050 will require profound transformations, not only in our technology and products but also for the people at Grundfos and throughout our global value chain, including local communities.

Our CTAP is rooted in a people-centric approach. We respect human rights, promote decent work, engage meaningfully with stakeholders, advance social inclusion for impacted groups, and ensure the flow of water is respected and protected.

In 2024 we conducted an initial climate risk and opportunity assessment, including a qualitative analysis of the impact of Grundfos' net-zero transition levers from a just transition perspective. We mapped our net-zero levers across our value chain and assessed them against several relevant themes, identifying high-level risks and opportunities. Based on this work, we defined just transition principles which we will continue refining and integrating with our sustainability frameworks. For Grundfos, this involves maximising the socio-economic opportunities as we move to a low-carbon, water-resilient, circular economy, while managing our risks and impacts on people.

We follow the definition of just transition by the ILO as "greening the economy in a way that is as fair and inclusive as possible to everyone concerned, creating decent work opportunities and leaving no one behind."

## Grundfos' just transition builds on three focus pillars, each with principles that guide our approach to shaping a just transition



### Foundation enabling respect for human rights

- Conduct sustainability due diligence
- Engage in stakeholder engagement and social dialogue
- Provide sustainability plans, transparency and resources



### Advancing decent work for our workforce

- Promote upskilling and employability
- Foster diversity, equality and inclusion
- Ensure health, safety and well-being



### Driving the transition and lasting impact with our stakeholders

- Influence and support business partners on decent work
- Promote equitable access to energy and water
- Engage in advocacy and partnerships



Possibility  
in every  
drop

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