

**Working  
with you  
for livestock  
sustainability**



# Together we're building a better future

Sustainability is at the core of our business. As a world leader in livestock health, nutrition and biosecurity solutions, we know that everything we do has an impact on not only the global food chain, but on people, the environment and our future.

We are committed to supporting the supply of safe food for both today's global population, and for generations to come.

By investing in renewable energy and implementing processes which protect the planet's precious resources, we're on track to be carbon neutral in our production sites for Scope 1 and Scope 2 by 2030. And through our innovative products and expert solutions, we're also helping livestock producers to achieve higher levels of performance in the most sustainable ways possible.

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As a global organisation, we must ensure that only healthy animals feed the world. While we develop the animal feed innovation required to meet exploding demand, we know that business, government, philanthropy and NGOs have a role to play in helping future generations have a better chance at meaningful, sustainable lives. We believe safe and nourishing food, and a healthy environment are central to those goals. ”

**Kiril Domuschiev**  
Huvepharma President



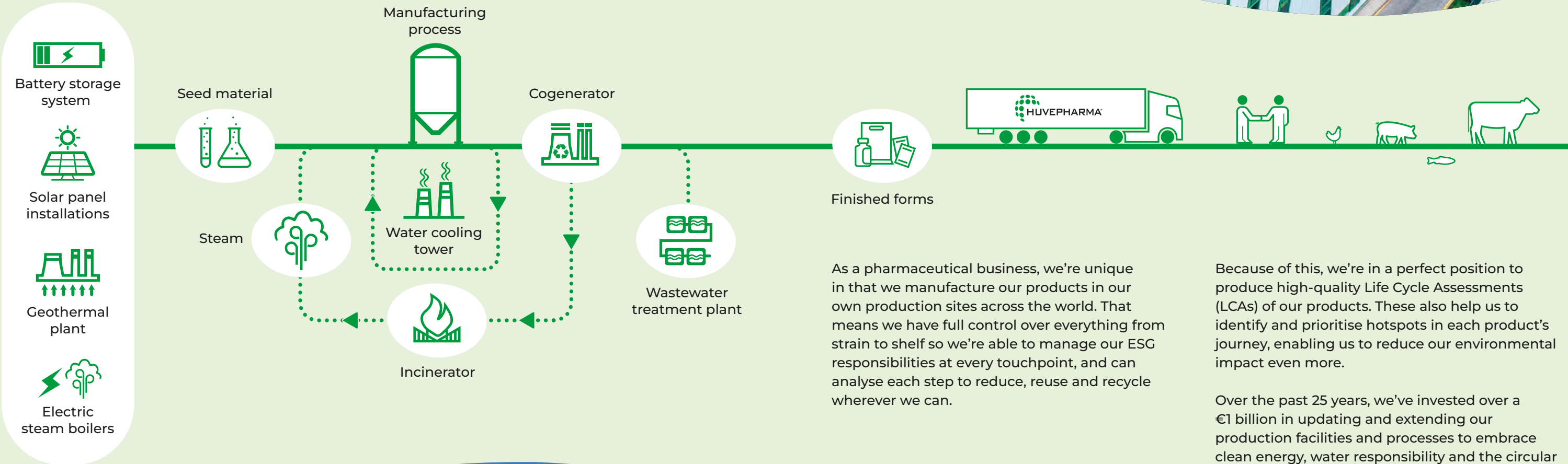
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# We're committed to being carbon neutral by 2030

At Huvepharma we're on a mission to minimise our environmental impact by 2030. In fact, our investments towards carbon neutrality have already reduced our overall carbon emissions by 30%.\*



As a pharmaceutical business, we're unique in that we manufacture our products in our own production sites across the world. That means we have full control over everything from strain to shelf so we're able to manage our ESG responsibilities at every touchpoint, and can analyse each step to reduce, reuse and recycle wherever we can.

Because of this, we're in a perfect position to produce high-quality Life Cycle Assessments (LCAs) of our products. These also help us to identify and prioritise hotspots in each product's journey, enabling us to reduce our environmental impact even more.

Over the past 25 years, we've invested over a €1 billion in updating and extending our production facilities and processes to embrace clean energy, water responsibility and the circular economy. And we're excited to continue this to 2030 and beyond, helping to build a more sustainable future for the world of livestock.

\* Please note that we have reduced our Scope 1 and Scope 2 emissions in our production plants in Bulgaria.



# We're investing in renewable energy

To reduce our reliance on fossil fuels, we're investing €300 million in converting our production processes to renewable energy including solar energy, battery energy storage systems, Greenburn and electrifying our natural gas steam boilers.

By 2030, we will increase our solar capacity to 190 MW and our battery storage capacity to 317 MWh – enough to meet the current and future energy demands of our Bulgarian production plants.

## Solar energy

We're heavily investing in solar panels to power our manufacturing plants. By 2030, these will generate around 200 MW of electricity.

## Battery energy storage

With a capacity of 125 MW\*, we've introduced the biggest privately owned battery energy storage system (BESS) in Europe. This BESS stores energy from our own solar panels, so we can harness even more solar-produced electricity.

On top of this, in line with a Bulgarian initiative to increase the country's consumption of solar energy, our BESS also draws excess renewable power back from the national grid, to store and release back at times of high demand.

\* Huvepharma group level

## Greenburn installation

Steam is used to ensure sterile conditions in our production process. By simultaneously producing electricity and steam in our co-generation plants, we boost energy efficiency as high as 90%. This decreases the electricity purchased from the grid and helps to decarbonise our production facilities.

Our Greenburn installation converts waste into heat which is used to produce steam. This helps us replace the natural gas normally used. So far, around 40% of our steam production comes from this renewable source.

40%  
of our steam production  
is already produced via  
Greenburn plants

## How clean energy is already making a difference

Our fermentation plant in Peshtera is now operating with 15% greater energy efficiency compared to a traditional facility. This improvement comes from a combination of the latest fermentation technologies, advanced energy monitoring systems, and innovative ways of reusing energy throughout the plant.

A key part of this efficiency is the integration of energy recuperation systems, including a Greenburn system. The Greenburn process incinerates manufacturing waste (biomass and hazardous materials) and the residual heat is used to produce the steam used in our manufacturing cycle, replacing the need for natural gas.

Together, these technologies ensure that our Peshtera plant not only has efficient production processes, but is able to lower energy use, cut down on waste and reduce its overall environmental footprint.





# Our production processes use water responsibly

At Huvepharma we don't just reduce water use – we rethink how water flows through our entire operation.



## Reducing our reliance on freshwater

To limit our impact on the freshwater ecosystem, we've installed closed-loop recycling systems in facilities such as our cooling towers. This helps to reduce our reliance on external water sources in our production process. normally used.

# We reuse and recycle where possible

At every step of our manufacturing process, we analyse ways we can reduce, reuse and recycle, in line with the circular economy model.

## Harnessing waste to make energy

Via our partnership with Greenburn, we recover biomass, paper and wood waste from our production process and convert it into energy – which is then circled back into our production process to produce steam.

This helps us to safely dispose of hazardous waste, reduce landfill, and decrease greenhouse gas emissions. Around 40% of our steam production is already produced via this waste-to-energy principle.

## Cleaner ecosystems

Water that comes into direct contact with our production processes (for example, during fermentation) is treated in our on-site wastewater treatment plants. Here it's cleaned to meet strict EU standards, before being safely discharged back into the environment.

## Reducing the use of packaging materials

We engage with our suppliers to receive as many goods as possible in bulk, reducing packaging. For this purpose, we've invested in silos for bulk storage.







# We help our customers achieve sustainable high-performance too

As a global force in the livestock sector, we continuously drive technology, innovation and knowledge to create value and benefit for our customers.

We know that ensuring a truly sustainable and secure food supply is a global challenge. But we also understand that any sustainable solutions also need to offer economic sustainability to livestock producers.

At Huvepharma we're here to help, with products, technology and solutions to reduce livestock emissions and transport impact, plus in-depth expertise that empowers producers to ensure the health and welfare of their animals.



# Products that reduce the environmental impact of livestock

The livestock industry is responsible for around 12% of all greenhouse gas emissions and livestock feed production is a huge contributor to this. Our products and solutions are designed to help reduce that impact, by optimising feed efficiency in a sustainable way without compromising the health or welfare of the animals.

## Lower greenhouse gas emissions

Our enzyme products play a direct role in reducing greenhouse gas emissions from livestock production.

By including an enzyme which promotes nutrient absorption and efficient use, less feed is needed to achieve optimum growth and productivity. This helps lower the environmental footprint of farming by reducing the resources required to raise healthy animals.

Including enzymes in animal feeds also makes it possible to reformulate diets using low-carbon ingredients. For example, supplementing a diet with OptiPhos Plus allows the removal of monocalcium phosphate (MCP) which reduces the carbon footprint of the feed.

## Less pollution of the ecosystem

Our portfolio of enzyme products includes phytase products which are included in diets to help release essential nutrients from the feed, increasing their availability for absorption.

This reduces the amount of undigested phosphorous in animal waste by as much as 70%, lowering the risk of environmental pollution.

## Reduced land and water use in feed production

Because our feed additives reduce the quantity of feed required to produce the same quantity of eggs or meat, fewer environmental resources are needed to create that feed.

By using our products, our customers can play their part in reducing the overall environmental impact of the livestock industry.

## Advancing the circular economy in animal nutrition

Our nutritional solutions help livestock producers get more value from by-products, turning what was once considered waste into useful feed ingredients.

By improving digestibility, our enzymes make current by-products more efficient for animals so a larger share can be included in their diets, without compromising nutrition or performance.

At the same time, our products also open the door to new by-products that were previously too difficult or uneconomical to use in feed. This expands the range of sustainable raw materials available to farmers, reducing reliance on traditional resources, and reinforcing the circular economy in livestock production.

## Our feed efficiency products in action

For pigs, feed contributes up to 70% of the environmental impact of the final meat. In poultry this figure can be as much as 80%. Our products help reduce this, by reformulating the feed with lower-carbon ingredients and by improving feed efficiency.



Our advanced Huvematic machine is one of the ways we're using technological innovation to reduce producers' impact on the environment.

The Huvematic enables customers to create liquid enzymes on-site, so there's no need for bulky IBC shipping and storing. That means a lower transport impact, better waste management and more sustainability all round.

## Technology that reduces customers' transportation footprint





## Expertise that helps ensure animal health and welfare

An important part of livestock sustainability lies in ensuring the health and welfare of the animals. With our wide-ranging portfolio of biosecurity products, feed additives and veterinary products – plus our unrivalled in-depth expertise – we can help producers meet their responsibilities.

### Products and technology that prevent disease

We have a wide range of products and solutions that help keep livestock healthy, and we're always innovating to deliver the best solutions on the market.

#### Biosecurity safety

Our biosecurity range helps producers keep a hygienic environment for the animals, reducing the chances of infection.

#### Gut health support

Our portfolio of gut health solutions – including probiotics and phytogenic products, promote a balanced microbiome.

By strengthening resilience against challenges like disease, environmental stress or variable feed ingredients, these solutions help safeguard animal health, feed efficiency, growth and welfare, while reducing economic losses for producers.

#### Biosecurity safety

Our biosecurity range helps producers keep a hygienic environment for the animals, reducing the chances of infection.



### Our innovative technology helps with health management too

We have a range of technology solutions specifically designed to help producers manage health and performance in a sustainable way.

- **Aviapp** enables producers to structurally follow-up and improve the health status, welfare and performance of their poultry flocks.
- Our **Biosecurity app** helps producers build the most cost-effective biosecurity programme possible.



## **Expert solutions for intelligent antibiotic use**

At Huvepharma we recognise and support that any required antibiotic treatment should always be under supervision of a qualified professional. We have a range of solutions to help, so veterinarians and producers can practice intelligent application of antibiotics in their livestock, protecting their effectiveness for the future.

### **Diagnostic tools for targeted treatment**

With Huvecheck, farmers and veterinarians can quickly and effectively test calves for pathogens, ensuring the right diagnosis is made.

### **Achieving the best treatment method**

Our product portfolio offers a wide range of administration possibilities, enabling veterinarians to select the most appropriate treatment method.

### **Getting the dose right**

Via the Huvepharma Dose Calculator app, we help producers ensure precise, practical, and compliant dosing of veterinary medicines.



## **Education, training and monitoring**

We invest continuously in the training of animal health professionals, and in monitoring for antimicrobial susceptibility, to ensure a wider understanding of livestock welfare and nutrition.

### **Animal health training**

We arrange and host global seminars for veterinarians to share our knowledge on gut health in poultry, and respiratory health in pigs.

### **Accessing and distributing knowledge**

Via conferences and practical training sessions, we offer livestock producers access to the newest information and trends in the field of nutrition and livestock production.

### **Promoting and training responsible use**

We provide guidance and training to veterinarians and livestock producers, helping them adopt best practices in animal health and welfare.

This includes promoting the responsible use of antimicrobials to ensure treatments are effective, targeted, and safe for animals and the environment.

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## **Monitoring of antimicrobial susceptibility**

As an animal health company, we ensure that our products are as safe and effective as possible. We actively monitor antimicrobial susceptibility through a combination of internal programs and external partnerships across multiple sectors.

Huvepharma will initiate a *Mycoplasma gallisepticum* and *Mycoplasma synoviae* specific project to isolate and identify pathogens in poultry farms worldwide and use them for antimicrobial sensitivity testing. The project will be conducted in cooperation with local poultry customers in the most important poultry-production countries of Asia, Africa and Europe.

The project will help with pathogen identification on farms, resistance determination for antibiotics and promote antibiotic use according to Global Prudent Use Policies (EMA, OIE, WHO)."





# And we're empowering people across the world



As well as looking after the planet, we're working hard to create a better future for people. We ensure that as a business, we actively invest in delivering opportunity and advancement, both for our own teams, and in communities across the world.

## Investing in our own people

By making learning and development opportunities as accessible as possible, we actively help our employees achieve their maximum potential and career goals.

We also run a worldwide programme of internships and scholarships, for young people entering the pharmaceuticals industry.

## Social and community initiatives across the world

Our global initiatives are designed to make a positive impact on the communities we work alongside.

From sports days for young people with learning difficulties in South Africa, to donating nourishing food to vulnerable people in India and helping underprivileged children learn business skills in Thailand, we're committed to helping to make lives better.





- Affiliates / representative offices
- Manufacturing facility



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If you'd like to find out more about our carbon neutral strategy, and how we're helping customers be more sustainable, please contact us on [sustainability@huvepharma.com](mailto:sustainability@huvepharma.com)

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