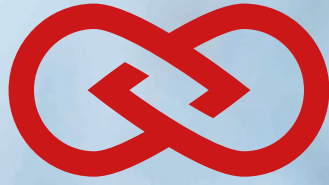




OPHARDT
HYGIENE

SUSTAINABLE DEVELOPMENT REPORT 2022



BREAK THE CHAIN OF INFECTION



A MESSAGE FROM HEINER OPHARDT, CEO

Dear Readers,

Throughout 2022, the world continued to deal with the fallout from the COVID-19 pandemic, as well as an emerging conflict in Ukraine. As supply chains began to stabilize from resumed global trade following the pandemic, energy security and unrelenting inflation became increasingly important issues. The impacts of rising costs were felt by households and businesses alike.

Hand hygiene products remained a crucial component to infection prevention – especially in public areas and in healthcare facilities. Our team is dedicated to our mission to Break the Chain of Infection. We work each and every day to design and manufacture products and services that contribute to a safer and healthier world. This year, we relaunched the OPHARDT Hygiene Monitoring System (OHMS) as Canary. OHMS hardware and software have served as a pioneering solution for healthcare facilities looking to monitor and improve hand hygiene compliance. As Canary, the system has been redesigned to become a more effective and intuitive tool for not only hygiene specialists and hospital staff, but also for facility managers and cleaning staff. Together with hand hygiene monitoring capabilities, Canary also offers the opportunity to monitor fill levels in dispensers, sending task notifications to facility staff. With this information, facility managers can ensure hygiene products are always available and waste bins are never over-filled.

Our SanTRAL® Plus washroom series is one of our in-house solutions compatible with Canary. The SanTRAL® Plus series continues to impress, winning several prestigious awards in 2022. The smart capable devices of this expanding series have broad appeal, thanks to their robust, intuitive, and sustainable design. A highlight of awards won this year include a Red Dot Award, German Design Award, and a Green Product Award.

While we strive toward our mission, we are also working toward a greener product line and more sustainable operations. The work of avoiding climate disaster requires urgency. In 2021, we announced our intention to become climate-neutral by 2045. This goal applies to both direct emissions from sources owned and controlled by OPHARDT (also known as Scope 1 emissions), as well as indirect emissions released from the generation of the energy we purchase (Scope 2 emissions).¹

In order to achieve our goal of net-zero emissions, OPHARDT Hygiene will continue efforts to become more energy efficient, to electrify and expand our own renewable energy sources, and purchase green energy. We will also contribute to additional proven initiatives to reduce our greenhouse gas (GHG) footprint.

In 2022, we expanded our renewable energy portfolio by investing in two photovoltaic systems at our Irish plant in Ballymote. Together, the two installations will provide around 200 kWp, accounting for over 10% of our annual energy needs at the plant. With the expansion of PV at our Irish facility, we are now generating solar power at three of our locations.

In our 2022 Sustainable Development Report, we take a closer look at OPHARDT Hygiene's activities and initiatives relating to our three sustainability goals: to improve health and well-being, cultivate stronger communities, and foster a thriving environment.

I wish you pleasant reading,



Heiner Ophardt
- CEO -

¹As defined by the GHG protocol.



COMPANY OVERVIEW


OPHARDT
HYGIENE



OPHARDT AT A GLANCE

To break the chain of infection, we need to start with our hands. Our hands hold endless potential to heal, help, and create. They can also carry disease and harm. Eighty-percent of all infectious diseases are spread through hands. Hand hygiene affects us all. **The power to live longer, healthier lives is in our hands.**



Since then, we have never stopped **innovating**. Over 400 patents and 7 production locations later, we continue to work tirelessly to break the chain of infection.

Our vision at OPHARDT Hygiene is to provide universal access to life-saving hygiene solutions. Our mission is to **Break the Chain of Infection.**



We are still persistent perfectionists. We not only design cutting-edge soap and disinfectant pumps, we manufacture them **in-house**. When our engineers want to check on our manufacturing process, they do not have to book a flight. They just walk down the hall.

Like so many innovative companies, **our story** starts in a garage. Hermann Ophardt, a persistent inventor and designer, prototyped Europe's most iconic dispenser, the ingo-man® in 1967. It was the first dispenser capable of reliably dispensing alcohol-based disinfectant.



From the most advanced medical facility to the most demanding public space, **we solve the problems** of hand hygiene through obsessive engineering, deep research, and manufacturing excellence.

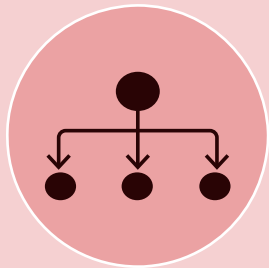
COMPANY PROFILE

Organization

Privately held, family owned since 1962.

Global Executive Team

The Global Executive Team represents the most senior committee responsible for decision-making on economic, environmental, and social topics. Members include:



Heiner Ophardt
John O'Malley
Ken Friesen
Albrecht Lang
Fred Roffel
Thomas Houcken
Allen Soden

Global Management Team

The Global Management Team forms the second-tier of our governance structure and is comprised of more than 30 members worldwide. The Global Management Team assists in developing and propelling company goals, strategies, and policies, and provides the link between senior management and the entire OPHARDT Hygiene team.

600 Employees By region, in %



Belgium	4
Canada	20
Germany	35
Ireland	15
Philippines	22
Switzerland	4

Manufacturing Locations



Beamsville, Canada
Ballymote, Ireland
Maaseik, Belgium
Issum, Germany
Niederbipp, Switzerland
Yerevan, Armenia
Cavite, Philippines

By gender, in %



Male	66
Female	34

By age, in %



<30	19
30-50	49
>50	32

Brands



ingo-man®
SanTRAL®
PRAESIDIO®
the untouchable™
NEPTUNE
KX Series
H3 Dispenser
RX Series
BTF Pump
X10
Canary®

STAKEHOLDER ENGAGEMENT

At OPHARDT Hygiene, we appreciate and benefit from the diversity of stakeholders to whom we are accountable and consider stakeholder engagement an essential aspect of our corporate governance. As stakeholder expectations and the industry itself are constantly evolving, we maintain close ties with key stakeholders at all levels of our company, communicating on a regular basis through both formal and informal channels. These relationships assist us in shaping the way we do business—prioritizing the topics that matter most in our industry.

Stakeholder Group	Methods of Engagement
<p>Customers</p> <p>Understanding the current and future needs of our customers helps us to deliver sustainable value, building on our reputation, and increasing our sales</p>	<ul style="list-style-type: none"> ▶ Annual Sustainability Report ▶ Conferences and Forums ▶ Direct Contact via Sales and Customer Care ▶ Hygiene Hub Blog ▶ Monthly Newsletter ▶ Product Videos ▶ Semi-annual Newsletter ▶ Social Media ▶ Trade Shows
<p>Education and Research Organizations</p> <p>Working together with education and research organizations enables us to provide a more scientific approach to deliver the best possible hand hygiene opportunities.</p>	<ul style="list-style-type: none"> ▶ Collaborative Partnerships ▶ Conferences and Forums ▶ Direct Engagement ▶ Sponsorships ▶ Tradeshows
<p>Employees</p> <p>Engaging regularly strengthens our team and provides an opportunity to listen and provide feedback on individual needs, as well as on the overall direction of the company.</p>	<ul style="list-style-type: none"> ▶ Company-wide Intranet ▶ Consultations ▶ Direct Engagement ▶ Employee Engagement Surveys and Forums ▶ Info-point Boards ▶ Newsletters ▶ Training ▶ Townhall Meetings
<p>Governance and Regulatory Bodies</p> <p>Proactively engaging and consulting with our regulators supports us in preparing in advance for potential changes that will impact our business.</p>	<ul style="list-style-type: none"> ▶ Annual Sustainability Report ▶ Conferences and Forums ▶ Direct Engagement ▶ Industry Associations

Stakeholder Group	Methods of Engagement
<p>Healthcare Providers</p> <p>Through engaging and consulting with healthcare providers we can better understand their needs and support them in providing safer patient care through improved opportunities for hand hygiene.</p>	<ul style="list-style-type: none"> ▶ Collaborative Partnerships ▶ Compliance Campus Visits ▶ Conferences and Forums ▶ Direct Engagement ▶ Hygiene Hub Blog ▶ Monthly Newsletter ▶ Product Videos ▶ Support for Educational Activities
<p>Non-governmental Organizations</p> <p>Collaborating with a range of NGOs supports us in gaining a better understanding of the immediate and wider sustainability issues affecting our local communities and beyond.</p>	<ul style="list-style-type: none"> ▶ Direct Engagement ▶ Donations and Sponsorships ▶ In-kind Support and Volunteering Initiatives ▶ Joint Fundraising Events ▶ Partnerships
<p>Local Communities</p> <p>Engaging with our local communities is essential to understanding how we can better support the community and in maintaining our reputation as a safe and responsible neighbour.</p>	<ul style="list-style-type: none"> ▶ Collaborative Partnerships ▶ Direct Engagement ▶ Local Business Forums ▶ Volunteering and Fundraising Events
<p>Suppliers and Partners</p> <p>Working together with our supply chain partners helps us to identify and mitigate potential supply chain risks, as well as to improve resource efficiencies of our products and services.</p>	<ul style="list-style-type: none"> ▶ Annual Sustainability Report ▶ Collaborative Partnerships ▶ Direct Engagement ▶ Hygiene Hub Blog ▶ Monthly Newsletter ▶ Policy Statements ▶ Site Visits ▶ Supplier Audits



KEY PARTNERSHIPS

We strive to make socially and environmentally responsible contributions to our local communities and across the globe. We support and engage with a diverse group of local and international organizations. These organizations are helping making the world safer, healthier, more equitable, and more sustainable. Some of these organizations include:

- Aktion Saubere Hände (Action Clean Hands)
- Bundesverband Handschutz e.V.
(National Association for Hand Protection)
- Deutsche Gesellschaft für Krankenhaushygiene e.V.
(German Society for Hospital Hygiene)
- Gesellschaft für Hygiene und Mikrobiologie
(Society for Hygiene and Microbiology)
- United Nations Sustainable Development Goals
- United Way, Niagara Chapter
- Verbund für Unternehmen & Familie e.V.
(Network for Business & Family)
- World Health Organization: Private Organizations
for Patient Safety (WHO POPS)

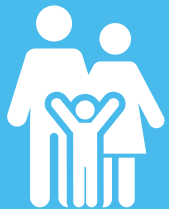
OUR SUSTAINABLE VALUES

We believe that economy, environment and society are interconnected and interdependent. In pursuit of our company mission, to Break the Chain of Infection, we must also work toward preserving our natural environment, as human and environmental health go hand-in-hand. That's why we're continually working to improve our products and services, doing more with less. We strive to make meaningful contributions to a more sustainable, circular economy, built to benefit all. In working to deliver more sustainable value with each and every product delivered, we've defined three main sustainability goals:



Improve the health and well-being

At the very heart of our business is our commitment to improving the health and well-being of people around the world through infection prevention and improved hygiene..



Cultivate stronger communities

We remain steadfast in our commitment to create a positive social impact in our local communities and around the world.



Foster a thriving environment

We are committed to being good environmental stewards and responsibly managing the environmental impact of our operations, delivering more with less.

A background image showing a close-up of two hands, one younger and one older, clasped together. A vertical red bar is overlaid on the left side of the image.

IMPROVE HEALTH AND WELL-BEING

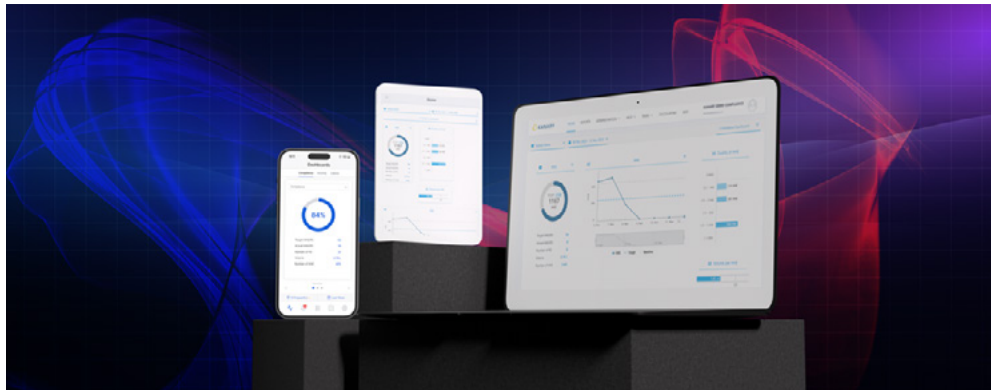


It is widely understood that hands are a main vector for the transmission of disease, with 80% of all communicable infections spread by the hands. These pathogens are transmitted not only through hand-to-hand contact, but also through frequently touched objects and surfaces, like door handles and rails. In medical and care facilities, as well as high-traffic public areas, the risk of infection is high. That's why our team focuses on providing comprehensive hygiene solutions that support infection prevention and ultimately save lives.

As in previous years, we employed our three-pronged approach, using product innovations, education & communication, and cross-industry collaboration to support us in achieving our goal of improving health and well-being through hand hygiene and in our company mission to Break the Chain of Infection.



KANARY® – A NEW ERA FOR OPHARDT'S SMART MONITORING SOLUTION



In June of this year, we announced the rebranding of our OPHARDT Hygiene Monitoring System (OHMS) to Kanary. Since its launch in 2011, OHMS has been a pioneering smart monitoring system for healthcare. With this rebranding, we are changing more than just the name. Kanary will now embody a simple, intuitive, and open hygiene monitoring system for healthcare – as well as facility management. We are laying the foundation for the next decade of smart services with this groundbreaking integrated solution.

Get early warnings with Kanary

We've all heard the phrase, "canary in the coal mine," a reference to a bygone era where the bird was used as an early warning system to alert miners to the presence of carbon monoxide and other life-endangering gases. As a result, the lives of many miners were saved. We draw on this part of history as a guiding metaphor. Our Kanary software is meant to deliver early warnings through real-time alerts. By providing these real-time alerts, we hope to support infection prevention and ultimately save lives.

Kanary for the health sector

Kanary's predecessor, OHMS, has been supporting clinics and hospitals in infection prevention for over a decade. The monitoring system has proven to be a vital tool for hospitals, with more than 50 million hand disinfections logged through the software. Digital hand hygiene monitoring is a massive leap forward for infection prevention. With this innovative technology, hospitals can improve hand hygiene compliance based on accurate data that is collected 24/7. Smart dispensers measure when, where, and how much disinfectant is dispensed. This specialists with reliable usage data to consistently improve infection prevention.

Kanary for facility management

In facility management, we can take a big step towards efficiency and ease of use with Kanary. Users now have a detailed overview of the state of their dispensers, as well as pending and completed tasks. We can also adapt the software to the size of a company and its specific needs.

Visitors expect sanitizer dispensers in entrances, and they expect washrooms to be clean, toilet paper and paper towel to be available, and waste bins to not be overfilled. Kanary helps deliver and exceed these expectations. Smart dispensers send data about filling level and battery level to the software, where the need for cleaning and refilling tasks are created automatically. These tasks can then be delegated to staff, and tasks can even be automatically marked as complete when the system sees that a previously empty dispenser is now full.



PRODUCT INNOVATIONS



Hygiene is an ever-evolving field that has changed dramatically over the past century. Breakthrough advancements have saved countless lives and improved the quality of life for many around the world. While significant strides have been made in improving health and well-being, there exist many persistent and emerging health issues related to hygiene. Continued innovation and collaboration among diverse stakeholder groups can help ensure well-being for everyone, at all ages.

Our Approach

Thorough hand hygiene supports health and well-being, and is an essential component of infection prevention and control. Raising the standard of hand hygiene can only be sustained when supported by innovative and reliable soap and disinfectant products. At OPHARDT Hygiene, we specialize in providing opportunities for hand hygiene for a wide range of settings and conditions, from public entrances to heavily frequented public restrooms, to point-of-care solutions in medical facilities. Where there is a need for hand hygiene, we have a solution.

SanTRAL® Plus wins multiple awards:

In 2022, SanTRAL® Plus was recognized across a broad range of award categories, winning a: Red Dot Award, German Design Award, IF Design Award and "Best of Best" Innovative Interior, Iconic Awards.



reddot winner 2022



OPHARDT Hygiene wins the Lower Rhine Entrepreneur Award 2021/2022



OPHARDT launches Kanary

Kanary is a full-featured realtime hand hygiene monitoring system for both healthcare and facility management.

Celebrating over 500 Patents

OPHARDT has recently passed the milestone of being awarded our 500 th patent - a testament to our focus on research and innovation.



New Universal Liquid Pumps

OPHARDT launches new X38 pumps that are compatible with our Neptune, KX, and UX dispensers. These new pumps can support an extremely wide range of viscosities and liquid types. They can also be built with spray or shower head, and support multiple dosages.



55 YEARS



ingo-man®

ingo-man® celebrates 55 years

OPHARDT's flagship sanitizer dispenser turns 55 this year. We look back on how this innovation changed the industry.

COMMUNICATION & COLLABORATION



Hand hygiene compliance is an increasingly important topic in healthcare settings. Low compliance rates can lead to unnecessary risk to patient health, as well as financial burdens to healthcare facilities through the spread of infections. Alongside the right tools in the right places, education, communication, and cross-discipline collaboration are core components to promote hand hygiene.

Our Approach

For more than 50 years, our team has worked tirelessly to understand the current and emerging needs in the medical industry and beyond to better serve our customers and end-users. We continue to strengthen ties both within and beyond the hygiene and healthcare industries through collaborations with our business partners, medical-research institutions, and other key stakeholder groups. Each year, our team attends a variety of hygiene and healthcare related conferences, exhibitions, and trade shows. We also host our own forums, training sessions, and other events to provide additional opportunities for collaboration among key stakeholder groups. By bringing together a variety of groups working toward a common goal, we hope to stimulate discussions and foster new innovations to further elevate public health and well-being.

COMMUNICATION & COLLABORATION

7th Annual BRAIN Forum

After two-years of online events, we hosted our 7th annual BRAIN Forum on site at our manufacturing location in the Lower Rhein region in Germany. The evening was filled with presentations and exchanges on hygiene and modern leadership methods.



Innovations Webinar

Our team hosts a biannual Innovations Webinar where we aim to keep everyone up-to-date on our latest research and developments.



World Health Organization

OPHARDT Supports WHO POPS

We have been a member of the World Health Organization Private Organizations for Patient Safety (WHO POPS) since 2015. We collaborate on approaches to improve hand hygiene in healthcare settings.



Aktion Saubere Hände

OPHARDT has been supporting the "Action Clean Hands" campaign since 2016. The national campaign works toward making sustainable improvements in hand disinfection compliance in German hospitals.



Hygiene Hub

We delve into our latest product innovations and explore the latest research, trends, and market developments relating to hand hygiene on our Hygiene Hub blog.

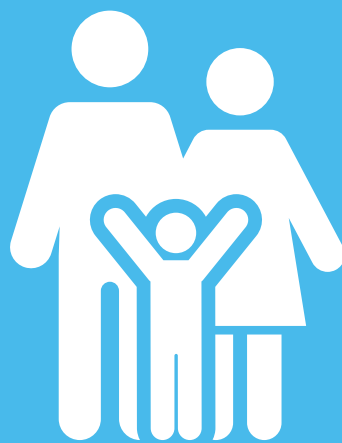


Monthly Newsletter

Each month, we publish an electronic newsletter, bringing the latest updates on hand hygiene and OPHARDT products to your fingertips.

A photograph of three young children of diverse backgrounds smiling and looking towards the right. The image is partially overlaid with a semi-transparent blue rectangle containing text and a white icon.

CULTIVATE STRONGER COMMUNITIES



As global markets grow and become increasingly interconnected, consumers are presented with more choices than ever before. With that, consumers' expectation that companies conduct business in an ethical and responsible way has grown accordingly.

At OPHARDT Hygiene, improving the lives of people around the world has always been at the core of our vision and mission. We remain steadfast in our commitment to positively impact the communities in which we live and work, and beyond. Our team works to cultivate stronger communities by focusing on those that are both local and global.



FOURTH ANNUAL CHARITY BADMINTON TOURNAMENT



On October 29th, a group of volunteers hosted the 4th annual Charity Badminton Tournament in support of RESPONSIBILITY e.V. A total of 27 teams participated in the event, held near our Lower-Rhein manufacturing location in Issum.

For the first time this year, we were able to welcome several teams from far away: not only badminton enthusiasts from Wuppertal and Erkrath were present, but also a very ambitious mixed team from Georgsmarienhütte.

The preliminary round-robin phase saw matchings of teams from all backgrounds in the sport, and lasted nearly 5 hours. Following this, the hotly contested quarterfinals began after a short break.

Each team gave it their best efforts. With such stiff competition, the 2019 champions, Guido Meisel and Martin Bauer (both from GSV Geldern), could only reach the 3rd place on the podium. Also in pursuit of the cup were Markus Hasselberg and Peter Siemes (from GSV Geldern as well), who were eventually defeated by “Cake Friends (Kuchenfreunde) Wuppertal” in the final match.

This year’s cup was awarded to André and Manu, who put up quite a challenge to their opponents. Congratulations to both of them for winning the tournament!

The cafeteria was also successful in raising donations. Volunteers provided a selection of drinks, cakes and salads that could be purchased for a donation. A raffle in the front foyer offered more than 300 attractive prizes that could be won, including the coveted “Cloud Taxi” balloon ride for two.

The event was a great success and we were able to raise approximately 2,500€ for RESPONSIBILITY e.V.

We would like to take this opportunity to thank the many volunteers, participants, and donators who made this event possible. Looking forward to seeing you all again for next year’s tournament!



LOCAL COMMUNITIES



Small and medium sized businesses are an essential part of local economies. They support economic development, create job opportunities, and have deeper, more enduring ties to the communities. The impact that small and medium sized businesses have on their local communities is often much greater than the economic benefits they appear to provide on the surface. Through close partnerships and collaboration with local organizations, small and medium sized businesses can help cultivate stronger, more vibrant communities.

Our Approach

We believe when companies and communities collaborate and engage with one another, they become stronger, more productive, and more resilient. Collaborating with local organizations focused on providing positive social impacts motivates us as a company, and as individuals. It helps us to engage and retain people who value making a positive impact for our business. Being part of a team that cares means that we can better people's lives where we live and around the world.

LOCAL COMMUNITIES

Fundraising in Beamsville

Through fundraising activities, colleagues at our Canadian plant raised nearly **\$7,000 CAD** in support of local non-profit organizations. Out of this sum, a combined total of **\$4,500 CAD** was donated to Food-4Kids in cash and food donations. The Fort and Elisha House each received approximately **\$1,200 CAD** in support of local youths; and pregnant women and families.



OPHARDT Kindergartenfest

On June 22, children and teachers from surrounding kindergartens were invited to celebrate the end of kindergarten, and the start of the children's school career. Kindergartenfest is held in memorial of Elisabeth Ophardt, wife of founder Hermann Ophardt, who contributed to the establishment of our company.



Fundraising in Ballymote

Through fundraising activities at our Irish plant, colleagues were able to raise approximately

€1,350 in support of the non-profit, Fluorish Sligo. Fluorish works together with the mental health charity Havin' a Laugh to support mental health and well-being within the local community.

GLOBAL COMMUNITIES



The need for businesses to make a positive impact in society has become increasingly important in recent years. In our global, interconnected world, companies are expected to not only create and sustain economic growth and development, but also to make worthwhile contributions in the communities in which they operate and beyond. Today's global consumers are concerned not only with which goods and services they purchase, but also how and by whom those goods and services are produced.

Our Approach

At OPHARDT Hygiene, we are building on a long tradition of engaging with local and global communities to create positive social impacts. Providing access to life-saving infection prevention tools is the very heart of our business. We are committed to doing our part to improve people's lives on a global scale. In addition to supporting infection prevention and control, we seek to continuously better our understanding of the wider impacts our business operations have on the global community. Our business contributes to the economic well-being of the communities in which we live and work, supporting our communities through employment, education, and training opportunities, as well as through support of organizations working to make positive contributions to people's lives.

RESP NSIBILITY e.V.

RESPONSIBILITY e.V. is a non-profit organization founded by a group of OPHARDT Hygiene employees in 2016. The RESPONSIBILITY Club's mission is to elevate health and well-being in underdeveloped communities around the world. This means promoting good hygiene, cultivating infection prevention, and providing much-needed equipment for facilities like hospitals, retirement homes, or schools. Improving access to these life-saving tools is a fundamental step toward fostering a better world for all. In 2022, the RESPONSIBILITY Club successfully raised approximately

€7,500 in support of non-profits around the world.

Sanitary Facilities Construction, Armenia

In June, RESPONSIBILITY e.V. donated the **€5,000** necessary to build water connections and sanitary facilities to support families in Armenia. This project was made possible through partnership with GAIN (Global Aid Network) Germany.



Latrine Construction, Niger

In September, RESPONSIBILITY e.V. donated the

2,500 CHF

necessary to build four latrine blocks in the Niamey region in Niger.

This project was made possible through partnership with SOS Children's Village Switzerland.

A photograph of three children in a grassy area, looking down at a net they are holding. The net is partially filled with small insects. The image is overlaid with a green semi-transparent rectangle containing text and a logo.

FOSTER A THRIVING ENVIRONMENT



Human and environmental health goes hand-in-hand. To achieve our company mission to Break the Chain of Infection and improve health and well-being around the world, we must also be good environmental stewards. We strive to responsibly manage the impact of our operations and to improve environmental performance. To do this, we actively support and promote programs that lead to greater resource efficiency and contribute to a more sustainable, circular economy.

We've outlined a three-pronged approach, focussing on sustainable product design, resource efficiency in our operations, and environmental stewardship to support us in achieving our goal to foster a thriving environment.



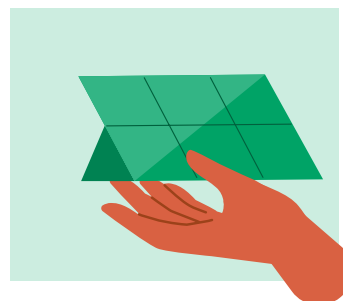
SOLAR POWER FOR AN EVEN GREENER IRELAND



In 2022, we expanded our renewable energy portfolio by adding two photovoltaic systems on the roofs of our manufacturing location in Ballymote, Ireland. With this installation, OPHARDT is now producing green electricity with the help of solar panels at three of our locations.

Our Irish installation will be our largest array worldwide, providing more solar power than currently generated at either our Belgian or Canadian manufacturing locations. “With the installation of solar cells, we have taken a big step towards sustainability at our plant in Ireland,” said Paul Donovan, Irish sustainability representative. Together, the two Irish PV systems will provide around 200 kWp, which accounts for over 10% of our annual electricity needs at the plant.

SOLAR ENERGY
570,000 kWh
 generated to date



Expanding the use of solar is only one way that we are committing to renewables in Ireland. As the island faces an uncertain winter, finding a sustainable and dependable way to heat our facilities has been a top priority. We have recently switched to locally-sourced wood pellets to provide heat. “Together with the switch to biomass for space heating in 2020, this [solar] project will significantly reduce our annual CO₂ emissions,” said Donovan. Local and renewable resources will help keep us manufacturing products while not adding to demand for natural gas.

While these are two recent additions to our climate plan, our work to move our Ballymote facilities towards renewable sources began in 2016. Since then, we have been investing in Guarantees of Origin for our entire purchased electricity supply. Purchasing Guarantees of Origin in our Irish, Belgium, and German manufacturing locations boosted the share of renewables in our purchased electricity supply mix to 75% in 2022.

Solar Energy at OPHARDT

In 2012, the first photovoltaic system was installed at the site in Maaseik, Belgium. These panels produce 17% of the total electricity needed at the facility.

The second photovoltaic system followed in 2019 at our Canadian location in Beamsville, Ontario. Around 56,000 kWh of electricity is generated here per year—enough to cover the annual energy requirement to light the plant.

OPHARDT will continue to expand renewable energy generated on site as we work toward our goal of becoming net climate neutral by 2045.

SUSTAINABLE PRODUCT DESIGN



Transitioning toward a more sustainable, circular economy is a critical shift we must make for future generations. It involves building an economy that is both restorative and regenerative, where all waste is minimized. This transition will impact not only the way products are designed and used but also the way they are processed at end of life. In a circular economy, product life spans are extended with reuse, repair, redistribution, remanufacture, and refurbishment playing a key role. Designing products in such a way that they can more easily contribute to closed material loops can enable us to reduce the generation of waste, while at the same time reducing dependence on primary resource extraction and imports of raw materials.

Our Approach

We are committed to using the resources we consume responsibly and are working toward making meaningful contributions toward a circular economy. For us, this begins with sustainable product design. Since the founding of our company, our reputation has been built on innovative, high quality, and long-lasting products. We use robust materials with classic designs to give our products a timeless appeal. Integrating recycled materials into our products helps us to keep valuable resources in the economy longer. Ensuring our products are recyclable at end of useful product life means that the materials we use can be incorporated once again into new products. As we move toward a more sustainable future, we are working to include further tenants of circular design into our product development process.



KX Refillable Bottle and Semi-Permanent Pump

We created a custom-made refillable bottle, specifically for our 750 ml KX dispenser. This refillable bottle is a more sustainable option, compared with cartridge solutions.

Together with the refillable bottle, we introduced the Universal Liquid pump, a semi-permanent pump that lasts 20x longer than our standard pumps.

SanTRAL® Plus Wins Green Product Award

Our focus on product lifespan and supporting the circular economy with our SanTRAL® Plus product line has been rewarded with a Green Product Award.



Post-Consumer Recycled

In 2022, we integrated **more than 8,000 kilograms** of post-consumer recycled resins in the manufacture of our pumps and other small plastic components

ingo-man® Battery Life Exceeds 50,000 Activations

We've conducted extensive research and determined battery life in our touchless ingo-man® Euro dispensers can support more than 50,000 activations. These dispensers offer incredible efficiency and minimize the amount of maintenance needed in healthcare settings and beyond



RESOURCE EFFICIENCY IN OPERATIONS



Over the next 30 years, the global population is expected to exceed nine billion people, creating greater demand for energy, intensifying pressure on water resources, and generating a growing amount of emissions and waste. Energy derived from fossil fuels plays a key role in the release of greenhouse gas (GHG) emissions— a leading contributor to global warming and climate change. Our changing climate is expected to bring with it altered precipitation patterns, exacerbating water scarcity in some regions, and intensifying flooding in other regions around the globe. With a growing population and developing nations working to achieve the industry and infrastructure of developed nations, we must all work toward transitioning to a low-carbon, circular economy, capable of meeting today’s demands, as well as those in the future.

Our Approach

At OPHARDT Hygiene, we are continuously working to strengthen resource efficiencies and limit waste and emissions within our operations. We are investing in more efficient technologies as they become available and are rethinking the way we design and manufacture our products to minimize waste. We prioritize efficiency and conservation initiatives relating to energy and water use, support projects that favour increased reliance on renewable energy, and are taking action to ensure our distribution channels and suppliers produce fewer GHG emissions.

Total, company-wide emissions:

1,559 tCO₂e*



Emissions (metric tonnes of CO₂e)*

Scope 1	784 tCO ₂ e
Scope 2	775 tCO ₂ e

Total water withdrawal:

7,149 m³



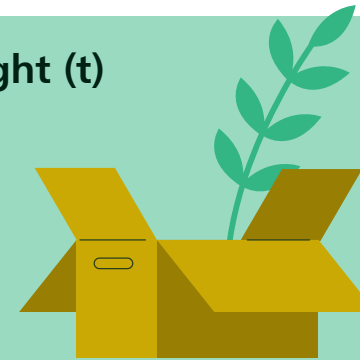
Total process water discharge:
1,599 m³ (136 m³ treated off-site,
1,463 m³ discharged to sewers)

Products

Aluminum	90
Stainless Steel	581
Other Metals	3
PE Plastics	323
PP Plastics	517
ABS Plastic	155
Other Plastics	129



Material usage, by weight (t)



Packaging

Cardboard	1,089
Paper	10
PE Plastics	15
Other Plastics	<1



Non-hazardous waste (t):

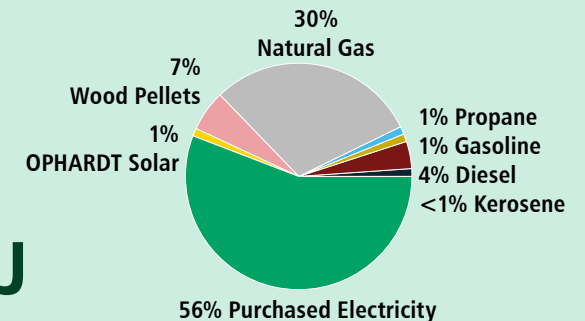
Reuse	6
Recycling	307
Composting	7
Recovery (incl. energy recovery)	19
Landfill	103

Hazardous waste (t)

Recycling	69
Incineration	21

Company-wide energy consumption, from all sources:

35,880 GJ



*All emissions are calculated using the IPCC's median lifecycle emissions of energy sources, including albedo effect, based on a 100-year timeframe¹⁷ and the IPCC's Guidelines for National Greenhouse Gas Inventories (unless otherwise stated)

ABOUT THIS REPORT



The OPHARDT Hygiene Group of Companies (OPHARDT Hygiene) is dedicated to conducting business in a responsible and sustainable manner. Being socially responsible is key to our company's long-term success, and a central value we are committed to providing our customers. As human and environmental health go hand-in-hand, we are also committed to minimizing the environmental impact of our operations.

Through our reporting, we aim to keep our stakeholders informed on how we continue to create long-term sustainable value. As in previous years, we have adopted the GRI standards framework in providing an overview of our operations and initiatives. GRI is an internationally recognized, independent organization that helps businesses, governments and other organizations understand and communicate the impact of business on critical sustainability issues. GRI provides the world's most widely used standards on sustainability reporting and disclosures. For a full list of GRI disclosures and their locations throughout this report, please refer to our GRI Content Index beginning on page 29.

This publication is our seventh annual sustainability report. All information contained in this report is based on performance metrics for the 2022 calendar year (January 1 - December 31, 2022), and covers worldwide OPHARDT Hygiene manufacturing locations, including Germany, Canada, Belgium, Ireland, Switzerland and the Philippines, unless otherwise stated.

As part of our ongoing commitment to stakeholder engagement, we welcome your feedback. Please share your thoughts by contacting us at sustainability@ophardt.com.

GRI CONTENT INDEX

This material references Disclosures 102-1 – 102-7, 102-12 – 102-14, 102-16, 102-18, 102-40, 102-42, 102-43, 102-45 – 102-53, and 102-55 – 102-56 from GRI 102: Organizational Profile 2016; Disclosures 301-1 – 301-2 from GRI 301: Materials 2016; Disclosures 302-1 and 302-2 from GRI 302: Energy 2016; Disclosures 303-1 and 303-3 from GRI 303: Water 2016; Disclosures 305-1 and 305-2 from GRI 305 Emissions 2016; Disclosures 306-1 – 306-3 from GRI 306: Effluents and Waste 2016; Disclosure 307-1 from GRI 307: Environmental Compliance 2016; Disclosure 401-1 from GRI 401: Employment 2016; and Disclosure 406-1 from GRI 406: Non-discrimination 2016.

For more information on the Global Reporting Initiative, visit www.globalreporting.org/Pages/default.aspx.

GRI STANDARD NUMBER	GRI STANDARD 2016 TITLE	DISCLOSURE NUMBER	DISCLOSURE TITLE	LOCATION	EXPLANATION/ REASON FOR OMISSION
Organizational profile					
GRI 102	General Disclosures	102-1	Name of the organization	OPHARDT Hygiene	Our manufacturing and administrative facilities are collectively referred to as the OPHARDT Hygiene Group of Companies, or OPHARDT Hygiene for short.
GRI 102	General Disclosures	102-2	Activities, brands, products and services	Company Profile	
GRI 102	General Disclosures	102-3	Location of headquarters	Company Profile	Our founding site is in Issum, Germany.
GRI 102	General Disclosures	102-4	Location of operations	Company Profile	
GRI 102	General Disclosures	102-5	Ownership and legal form	Company Profile	
GRI 102	General Disclosures	102-6	Markets served	OPHARDT Hygiene at a Glance	
GRI 102	General Disclosures	102-7	Scale of the organization	Company Profile	As a privately-held company, we choose not to publish data on financial performance.
GRI 102	General Disclosures	102-12	External initiatives	Key Partnerships Cross-industry Collaboration	
GRI 102	General Disclosures	102-13	Membership associations	Key Partnerships Cross-industry Collaboration	

GRI STANDARD NUMBER	GRI STANDARD 2016 TITLE	DISCLOSURE NUMBER	DISCLOSURE TITLE	LOCATION	EXPLANATION/ REASON FOR OMISSION
Strategy					
GRI 102	General Disclosures	102-14	Statement from senior decision-maker	Letter from the CEO	
Ethics and integrity					
GRI 102	General Disclosures	102-16	Values, principles, standards, and norms of behaviour	OPHARDT Hygiene at a Glance	A copy of our Code of Ethics and Business Conduct can be found on our website: www.ophardt.com
Governance					
GRI 102	General Disclosures	102-18	Governance structure	Company Profile	
Stakeholder engagement					
GRI 102	General Disclosures	102-40	List of stakeholder groups	Stakeholder Engagement	
GRI 102	General Disclosures	102-42	Identifying and selecting stakeholders	Cross-industry Collaboration	We are accountable to a diversity of stakeholder groups. The groups included in this report represent the range of material topics that inform our business strategies.
GRI 102	General Disclosures	102-43	Approach to stakeholder engagement	Stakeholder Engagement	
Reporting practice					
GRI 102	General Disclosures	102-45	Entities included in the consolidated financial statement		As a privately-held company, we choose not to publish data on financial performance.
GRI 102	General Disclosures	102-46	Defining report content and topic Boundaries		See each material topic for details.
GRI 102	General Disclosures	102-47	List of material topics		Included throughout the report.
GRI 102	General Disclosures	102-48	Restatements of information		There are no restatements of information for this reporting period.
GRI 102	General Disclosures	102-49	Changes in reporting		
GRI 102	General Disclosures	102-50	Reporting period		January 1, 2022 – December 31, 2022
GRI 102	General Disclosures	102-51	Date of most recent report		2021 Sustainability Report
GRI 102	General Disclosures	102-52	Reporting cycle		Annual
GRI 102	General Disclosures	102-53	Contact point for questions regarding the report		sustainability@ophardt.com
GRI 102	General Disclosures	102-55	GRI content index	GRI content index	
GRI 102	General Disclosures	102-56	External assurance		The content of this report has not been externally assured.

GRI STANDARD NUMBER	GRI STANDARD 2016 TITLE	DISCLOSURE NUMBER	DISCLOSURE TITLE	LOCATION	EXPLANATION/ REASON FOR OMISSION
Social Topics					
GRI 406	Non-discrimination	406-1	Incidents of discrimination and corrective actions taken		There are no incidents of discrimination to report in this reporting period.
Environmental Topics					
GRI 307	Environmental Compliance	306-1	Non-compliance with environmental laws and regulations		There are no non-compliance with environmental laws and regulations to report in this reporting period.
Material Aspect: Product Innovations					
GRI 103	Management Approach	103-1	Explanation of the material topic and its Boundary	Product Innovations	
Material Aspect: Communication & Collaboration					
GRI 103	Management Approach	102-1	Explanation of the material topic and its Boundary	Communication & Collaboration	
Material Aspect: Local Communities					
GRI 103	Management Approach	103-1	Explanation of the material topic and its Boundary	Local Communities	
Material Aspect: Global Community					
GRI 103	Management Approach	103-1	Explanation of the material topic and its Boundary	Global Communities	
Material Aspect: Sustainable Product Design					
GRI 103	Management Approach	103-1	Explanation of the material topic and its Boundary	Sustainable Product Design Global Communities	
GRI 301	Materials	301-1	Materials used by weight or volume	Resource Efficiency in Operations	
GRI 301	Materials	301-2	Recycled input materials used	Sustainable Product Design	

GRI STANDARD NUMBER	GRI STANDARD 2016 TITLE	DISCLOSURE NUMBER	DISCLOSURE TITLE	LOCATION	EXPLANATION/ REASON FOR OMISSION
Material Aspect: Resource Efficiency in Operations					
GRI 103	Management Approach	102-40	Explanation of the material topic and its Boundary	Resource Efficiency in Operations	
GRI 302	Energy	302-1	Energy consumption within the organization	Resource Efficiency in Operations	
GRI 302	Energy	302-2	Energy consumption outside of the organization	Resource Efficiency in Operations	
GRI 305	Emissions	305-1	Direct (Scope 1) GHG emissions	Resource Efficiency in Operations	
GRI 305	Emissions	305-2	Energy indirect (Scope 2) GHG emissions	Resource Efficiency in Operations	
GRI 303	Water and Effluents (2018)	301-1	Water withdrawal	Resource Efficiency in Operations	
GRI 303	Water and Effluents (2018)	303-4a	Water discharge	Resource Efficiency in Operations	
GRI 306	Effluents and Waste	306-2	Waste by type and disposal method	Resource Efficiency in Operations	
GRI 306	Effluents and Waste	306-3	Significant spills	Resource Efficiency in Operations	There are no significant spills to report in this reporting period.

COMPANY INFORMATION

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Image Credits

Adobe Stock, Istock Photo, Fotolia,
Samuel Houcken Photography

Publication date of this report

December 22, 2023

For further information on our social and environmental performance,
please visit our website:
<https://www.ophardt.com/en/sustainability>

OPHARDT Hygiene in Social media



<https://www.linkedin.com/company/ophardt-gmbh>



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Note regarding information and forward-looking statements included in this report

This report has been published for information purposes only. The Group may have issued, and may in the future issue, other communications that are inconsistent with, and reach different conclusions from, the information presented herein. Those communications reflect the assumptions, views, and analytical methods of the persons that prepared them, and have been estimated using the best available data at the time the communication was published.

This report contains information on the Group's objectives and trends for growth based on information currently available to the organization. Forward-looking statements can be identified by the use of the future tense, conditional, or of forward-looking terms, such as "anticipate", "believe", "estimate", "will", "may", "consider", "plan", "intend", "expect", "think", "aim", "project", or other variations or terms with similar meaning. This information should not be considered as a guarantee that the prospects and objectives described will be achieved. These statements are based on data, assumptions and estimates considered reasonable by the Group as of the date of this report publication. They may be affected by known or unknown risks, uncertainties and other factors which might impact future results, performances and achievements of the Group in a way that is significantly different from the objectives described herein. This information might therefore change due to uncertainties relating notably to the economic, financial, competitive and regulatory environment, or other risks or circumstances. The information contained in this report reflects our beliefs, assumptions, intentions, plans and expectations as of the date of this report. All forward-looking statements contained in this document are qualified in their entirety by this cautionary note.



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