

# SUSTAINABILITY REPORT - 2022





## Sustainability Report 2022

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# About this report

**In the evolving landscape of sustainability and waste management, SAR proudly presents its 2022 Sustainability Report. With this report we wish to showcase our commitment to environmental stewardship, innovation, and responsible business practices. As a leading provider of Waste Chain Management services, SAR continues to navigate the challenges and opportunities presented by a rapidly changing world.**

In the year 2022, SAR has continued to promote a greener and more sustainable future. This report serves as an overview of our achievements, initiatives, and strategies that have guided the company towards a circular economy, aligning with global sustainability standards and the United Nations' Sustainable Development Goals (SDGs).

Throughout this report we will present SAR's vision, mission, and values, which form the foundation of our operations. Through our Waste Chain Management concept, we have focused on emphasizing the shift from viewing waste as a problem to recognizing it as a valuable resource. Our daily operations, innovative projects, and collaborative partnerships are showcased to provide insights into our commitment to sustainable practices across the entire value chain.

The report further details SAR's contributions to environmental sustainability, climate action, waste handling, and circular economy projects. Success stories, such as the development of SAR CapOil, exemplify our ability to turn waste into valuable products. As we navigate the complex terrain of compliance, partnerships, and ethical standards, SAR's commitment to responsible business practices shall always shine through.

Our engagement with stakeholders, dedication to compliance, and emphasis on ethical guidelines underscore our role as a trustworthy and ethical partner in the waste management industry.

In closing, SAR's 2022 Sustainability Report is a comprehensive narrative of our journey towards sustainability, innovation, and responsible business practices. We extend our gratitude to our stakeholders, partners, and employees whose collaboration and dedication have made these achievements possible. Together, we look forward to shaping a future where waste becomes a valuable resource, and sustainability is not just a goal but a way of life. SAR is a key actor in a circular economy.



# About SAR

## Who is SAR & What do we stand for



*Our first Sustainability Report is the start of a journey sharing the mission, vision and progress we in SAR have towards sustainability and turning waste to value. I look forward to share with you the journey how SAR works towards changing practices within the waste industry in a safe manner to a more circular business.*

**Tor Olav Schibevaag**  
CEO of SAR

### The green transition

The world is transitioning towards a greener and more environmentally sustainable society. As a provider of Waste Chain Management services to our customers, SAR takes our responsibility very seriously to contribute to this transition.

We aim to ensure that waste management is carried out safely throughout the value chain: from the waste being produced by the customer, to being managed by the ecosystem - to its final disposal.

We will prioritise sustainability in all the choices we make. This applies to both procurement, chemicals, equipment, energy consumption and carriers, emissions, and waste.

We shall ensure the best possible use of resources and contribute to a minimal environmental impact, both internally and with our customers and partners.

Sustainability is the core of our foundation. We recognise that every resource has a life cycle.

The goal is to minimise the volume of waste generated and rather retain the resource for as long as possible through its lifecycle. Further by optimizing recycling of the resource and energy recovery we ensure that our customers reduce their environmental footprint.

### Mission:

#### Turning waste to value

SAR has commitment towards responsible and sustainable waste management and resource utilization. A vision of a world where waste materials are not seen as mere disposables but as resources that can be harnessed for the benefit of both the environment and the economy.

<i>turning waste to value</i>
<i>for the Customer</i>
<i>for the stakeholders and organization</i>
<i>for the Team and Partners</i>
<i>for the Society</i>

### Vision :

#### One team shaping the future for Safe and Circular Waste Solutions

Our vision shall support us toward unity and collaboration where we keep our people and processes safe, take in our environmental responsibility, focus on not just addressing current problems but actively seeking new and better ways to address waste-related challenges with a long-term focus that extend beyond short-term goals.



# values and culture

Our core principals and beliefs that guide our behaviour, decisions and culture. The values play a crucial role in defining our identity, influencing our relationship with stakeholder and helping us achieve our mission and vision:

## Values

### Serious

A commitment to taking our work and responsibilities seriously. Focus on professionalism, attention to detail and a no-nonsense approach to tasks and objectives. A dedication to maintaining high standards and ethics.

### Innovative

A willingness to embrace creativity and new ideas. A commitment to staying open to change and adapt to new methodologies and technologies. A desire to continuously improve and find unique solutions to challenges.

### Structured

An emphasis on organization, planning and orderliness. Represent a preference for well-defined processes and clear guidelines. Reflects a commitment to systematic problem-solving and decision-making.

### Flexible

Adaptability and the ability to adjust to changing circumstances. For being open-minded and responsive to diverse viewpoints and perspectives. Willingness to accommodate different working styles and evolving priorities.

## Culture

### Focused on Safety, Team and Value creation.

Safety, Team and Value Creation shall foster a safe, collaborative, and innovative environment where employees are motivated to excel in their work while contributing to the greater good.

### Team Collaboration

Collaboration and teamwork are highly valued. Employees work together seamlessly, sharing knowledge and expertise to solve problems efficiently and effectively. There's a sense of camaraderie and mutual support among team members.

### Safety First

Every employee understands that safety is paramount. There's a rigorous adherence to safety protocols and procedures to ensure the well-being of both employees and the environment.

### Value Creation

The company is committed to creating value not only for shareholders, but also for the community and the environment. This involves innovation in waste management and treatment processes, finding sustainable solutions, and continually seeking ways to minimize environmental impact while maximizing resource efficiency.



# Where we are located

We are strategically located along the Norwegian coast from Stavanger in the south to Hammerfest in the north.

Our customers range from the private and the public sector to the oil and gas industry, both on-shore and offshore. Experiences gained over decades of serving the Norwegian waste market has provided us with a solid foundation for continuous expansion, development and investment, also in our International Operations.

Map - SAR locations.



# SAR in numbers

## Environment & Circularity

	2022
Waste received	436 717 [tons]
Waste treated*	124 568 [tons]
Waste 2 Product	3 640 [tons]
Waste 2 Nature**	114 512 [tons]
Co2e***	19 768 [tons]
Electricity	27 860 990 [kWh]
Fuel	2 085 959 [Litre]

\*Treated amount at Risavika, Averøy, Sandnessjøen & Hammerfest.

\*\*Treated amount at Mongstad Water Treatment.

\*\*\*CO2e from Scope 1,2 & Scope 3 (Category 5,6) Market-based.

## People and Compliance

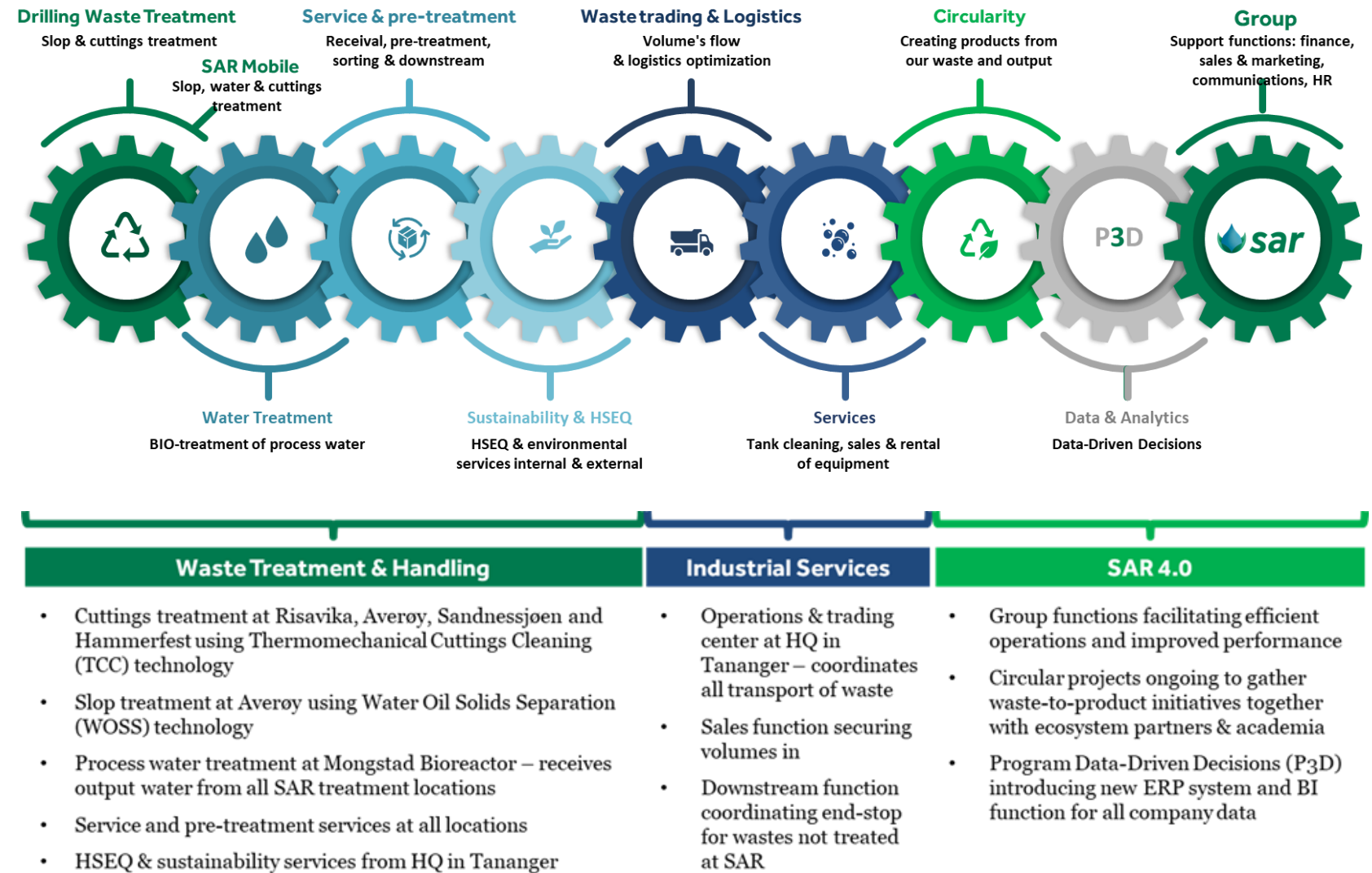
	2022
Full-Time Equivalent (FTE)	296
Lost Time Incident Frequency (LTIF)	5,04
Work accidents	3
External audits performed at SAR	22
Internal audits performed by SAR	23





# What we do - Our Business flow

SAR is a top-tier, global waste management partner and service provider. Our extensive presence enables us to process large volumes of waste with short lead times, and our flexibility allows us to offer ad hoc solutions for our clients.





We offer a wide spectrum of supporting systems and waste services, including treatment, handling, cleaning, removal, and disposal of waste:

## Hazardous waste

Hazardous waste is substances that even in small quantities can cause injury to man, animals or the wider environment. SAR receives and handles all sort of hazardous on our locations in Hammerfest, Sandnessjøen, Kristiansund, Florø, Mongstad & Tananger.

## General waste

General waste comes from public and private businesses and institution. The amount of waste is growing and as a result there is an increasing demand on waste sorting, recycling and efficient final disposal. SAR provides these services at our locations in Hammerfest, Sandnessjøen, Kristiansund and Florø. In Tananger and Mongstad we supply these services through our excellent suppliers.

## Treatment of Drill Cuttings

SAR Treatment plants in Hammerfest, Sandnessjøen, Averøy and Tananger makes use of two different technologies for processing cuttings; TCC® and ITDU®. Both technologies are based on a thermal desorption process separating the waste into water, oil and solids.

## Treatment of Mudslop

Our WOSS (Water Oil Solid - Separation) process plant at Averøy separates mudslop into water, oil and solids using decantation and separation technology.

## Treatment of Wastewater

SAR treatment plant for wastewater at Mongstad is the largest of its kind in Norway with a treatment capacity for up to 240 000 m3 per year. The unique thing about the plant is that it is robust and has the ability to treat a wide range and complex compositions of contaminated water.

## Advisory and Training

We offer consultancy services and courses to secure our customers an environmentally friendly waste handling, securing safety for their operating personnel and cost-efficient solutions for an overall sustainable place of business.

Our experienced team of advisors help organisations to establish waste management incentive programs, environmental reporting systems and offers educational courses, training activities and other consulting services within Waste Chain Management (WCM).

For our customers and partners, SAR offers a range of standardized and customized courses and training. For each customer, SAR can tailor the specific education and training according to your organizations' needs. Courses may be held at your organization's locations, at one of SAR's locations or digitally/webinar format.



*In addition to the physical handling of waste, SAR provides sales of equipment and rental services.*



## Tank- and Industrial Cleaning

### Onshore and offshore

SAR has extensive experience and competence in tank- and industrial cleaning onshore- and offshore, at ships, tank farms and refineries and we have a well featured fleet of vehicles and equipment specially designed for these operations, both automatic no-entry and equipment for manual cleaning.

SAR also offers a range of decontamination services including cleaning, video inspection, pressure testing and removal of sludge from all types of tanks and piping systems.

WCM manages all aspects of the waste chain – from before a resource becomes ‘waste’ until the resource is brought back into a new life cycle.

This circular production policy includes all stages - from creation of waste, collection, receipt, classification, sorting, transportation, and recycling into a new resource.

Drilling waste from the offshore operations and other polluting fluids are even treated in SAR's own facilities.

### Equipment rental

We provide sales of equipment and rental services, inhouse treatment facilities and on-site project personnel with offshore training. SAR will always provide you with the necessary UN-approved equipment for properly handling of hazardous waste.

## Waste Chain Management

WCM® is a comprehensive solution for waste management which is designed to reduce the costs and environmental impact throughout the value chain.

First and foremost, Waste Chain Management reflects an attitude. Working according to WCM means that SAR and their customers always will treat ‘waste’ as a valuable resource, as opposed to viewing ‘waste’ as a problem. Secondly, WCM also reflects a circular economy.

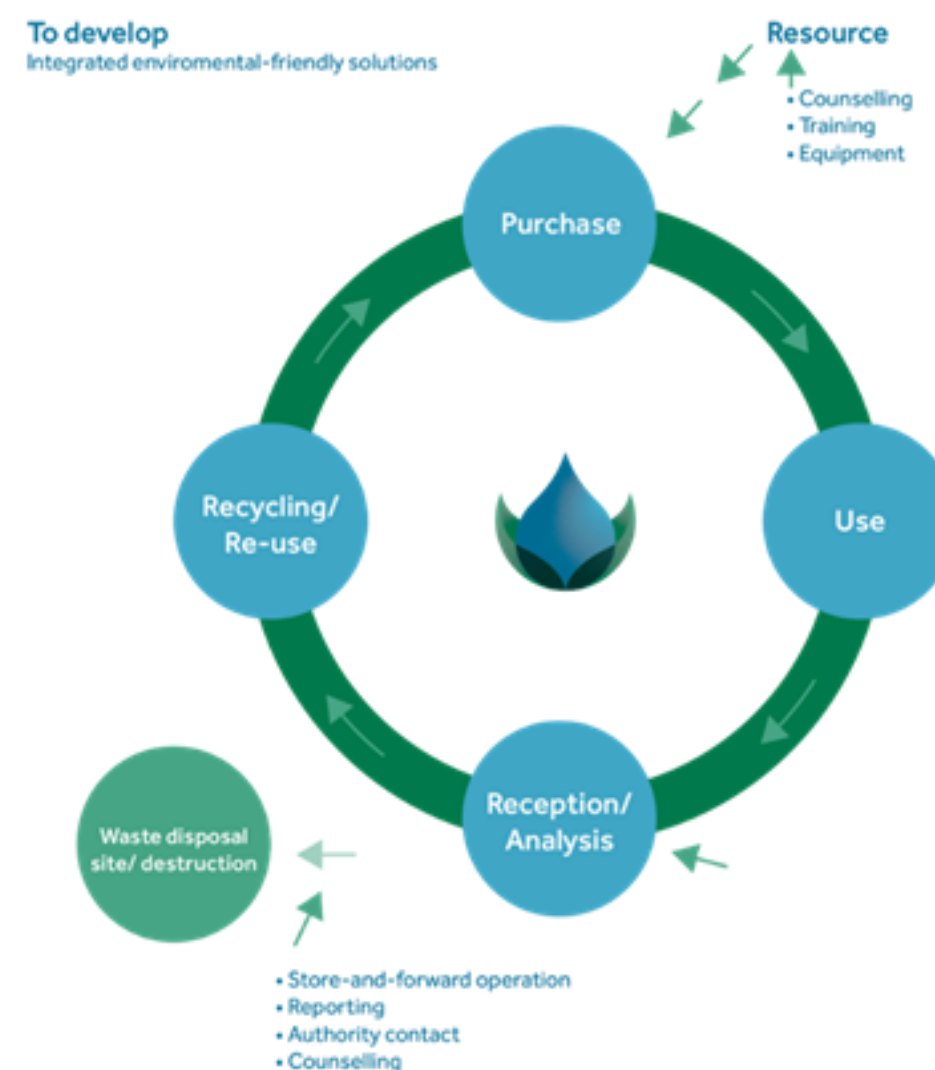
*For our customers and partners, SAR offers a range of standardized and customized courses and training.*

## Why is WCM important?

The concept is based on the recognition that a resource has a life cycle. The goal is to retain the resource for as long as possible through its lifecycle by optimizing recycling of the resource and energy recovery, and by simply limiting the volume of resources consigned to a landfill.

Minimizing the volume of waste in landfills will also reduce the leakage of methane gas from decomposition of organic materials into the atmosphere.

Therefore, WCM provides a two-fold value for a company: Cost efficiency and compliance to environmental standards and regulations.



Waste Chain Management Concept (WCM).



## Data Driven Discission & Digitalisation

Digital transformation has transitioned from being a "nice-to-have" to a "must-have" for the waste industry. Digital transformation of SAR is started and is a strategic priority.

The main goal for 2022 was to build foundation for digital transformation. These were the main focus areas for SAR Digital:

- Control data and data flows, data quality and establish data governance

- Enhance data literacy and support data-driven decisions
- Improve IT security and raise awareness.

### Here are the advantages SAR gains enhancing digital transformation:

- **Competitive Advantage:** Digital technologies enable better efficiency, decision-making, and customer experiences, all of which can differentiate a company from its competitors.
- **Operational Efficiency:** Digital transformation streamlines operations, automates processes, and optimizes resource utilization. This leads to cost savings, higher productivity, and better resource allocation, which are crucial for staying competitive in the market.
- **Data-Driven Insights:** Digital technologies enable collection and analysis of data. By making data available, industrial companies can gain valuable insights into their operations, customers, and markets, enabling data-driven decision-making and strategic planning.
- **Customer Expectations:** Customers today expect user-friendly digital experiences. Industrial companies need to digitize their processes and offerings to meet these expectations and support their customers' ESG journeys.

### SARs focus on Data-Driven Sustainability

SAR Digital department, led by Alisa Smerdova, plays a crucial role in ensuring that our clients achieve an effective collaboration platform related to circularity. In an era where the focus on sustainability is stronger than ever, sharing data and gathering information about companies' environmental impact is essential. This is particularly evident through the increasing demands for delivering ESG reports to authorities, symbolizing corporate responsibility in terms of environment, society, and governance.

By promoting data-driven collaboration and utilizing technology to improve waste management, we help our clients meet both today's requirements and tomorrow's challenges. Through innovation and partnerships, we strive to support a circular economy and reduce environmental impact.

Alisa and her team work daily to develop solutions that enhance efficiency and optimize data flow. Through her efforts, Alisa has established a culture of knowledge sharing that extends across the entire organization.

*In SAR, we believe that sustainability is the key to the future, and Alisa's work is a significant part of our commitment.*

With over 13 years of experience in the oil and energy industry, Alisa has gained a wealth of valuable knowledge.

### Presence and -Influence

Alisa was a keynote speaker at ONS 2022 and was named one of "Norway's Top Women" in Technology the same year. This recognition was given by the ODA network, Norway's leading network for women in technology, and Abelia, the NHO association for knowledge- and technology-based enterprises.

At the "Make Data Smart 2022" conference in Trondheim, Alisa delivered a significant speech during the technical session focused on "Value from Data Sharing."

She shared insights on how data can be used as a powerful tool in both planning and process improvement. The conference was organized by the Business Unit for Business Intelligence & Analytics at DND Trondheim.

With her deep knowledge of data technology and commitment to sustainability, Alisa offers knowledge-based perspectives on how data sharing can increase efficiency and improve environmental impact for businesses. Her presence and influence at such events demonstrate her dedication to promoting technological innovation and sustainability.

*Picture: Alisa Smerdova, IT & Digitalization Manager.*





# Sustainability at SAR

## SDGs in SAR

The Sustainable Development Goals are the blueprint to achieve a better and more sustainable future for all. The 17 goals address the global challenges we face, including those related to poverty, inequality, climate change, environmental degradation, peace and justice.

SAR supports all the 17 UN Sustainable Development Goals, with extra emphasis on the following 6, where we can make an important impact. Sustainability Goals 17 has high importance for SAR since collaboration with our ecosystem is essential to reach all the other goals.



### Goal 3:

We aim to ensure that waste management is carried out safely throughout the value chain: from the waste being produced by the customer, to being managed by us in SAR - to its final disposal. No work-related illness or personal injuries shall occur. We will work together to create positive and healthy attitudes and activities, both internally and with our partners.

### Goal 4:

We facilitate lifelong learning. Hence, we need to ensure the appropriate expertise for our various operations and give our employees the opportunity for growth and development. We must actively offer good advice to our customers and partners, and we need to provide the training needed to ensure sustainable solutions throughout the value chain.

### Goal 8:

We must ensure good opportunities for all our employees. We will work together for equality and establish a positive and sustainable working environment which properly preserve labour rights. We will promote that SAR = Safety Accountability Respect. We must ensure sustainable economic growth to be able to advance even further in an environment-friendly direction.

### Goal 9:

We strive to be innovative and to develop a solid infrastructure together with our customers, suppliers and other partners. WCM (Waste Chain Management) should be our distinctive hallmark. This includes a sustainable value stream, logistics and digitalization. We will develop new business models to ensure a sustainable transition towards a circular economy.

### Goal 12:

We will prioritise sustainability in all the choices we make. This applies to procurement, chemicals, equipment, energy consumption and carriers, emissions and waste. We shall ensure the best possible use of resources and contribute to a minimal environmental impact, both internally and with our customers and partners. We aim to ensure sustainable and balanced income and distribution of costs between SAR and our partners.

### Goal 17:

We will have a strong focus on collaboration in order to achieve our goals. We need to be the driving force in various forums and work together with our customers and suppliers, the authorities, the industry and the local community in our search for favourable sustainable solutions. In SAR, we believe that challenges can only be solved by collaboration throughout the supply chain. We will strive to ensure that contracts do not compromise with sustainability.





# People and safety first

## Health & Safety

### Our HSEQ Policy

Safety is not a statistical numbers game for a company that annually handles thousands of tons of hazardous waste. Health, safety, environment and quality (HSEQ) is the main prerequisite for SAR.

- We place great demands on leadership at all levels and management engagement shall be in line with our strategy.
- Our services shall be based upon the highest requirements for our employees, systems, equipment and facilities. This commitment also applies to our selection of suppliers.
- We shall be in compliance with all applicable obligations.
- We shall not have accidents. We will prevent injury of our employees and pollution to the environment.
- We focus on maintaining and improving employee satisfaction at work.
- Work performance shall not be at the expense of safety, quality or environmental performance.
- We will constantly work to improve our environmental performance including implementation of energy saving measures.
- We promise that our customers will receive total waste solutions that prevent loss of resources.

We will constantly strive to improve our services and our management system for health, environment, safety and quality.

People & Health	2022
Working hours	594 823
Days lost	14
Work related Fatalities	0
LTIF	5,04
Work accidents	3
HSE weeks per department	2

We will constantly strive to improve our services and our management system for safety, health, environment and quality.





# HSE Program

The Health, Safety, and Environment (HSE) program is a critical component of the company's operational framework, reflecting a commitment performance in these essential areas. Endorsed by the Senior Management Team, the annual HSE program is a testament to the strategic importance placed on health, safety, and environmental focus within the organization. The program is structured into two key segments:

## Operational HSE

Central to the daily management of HSE responsibilities are the operational procedures and processes. Planned HSE actions detailed in local HSE activity plans enforces day-to-day HSE focus and commitment.

Operational HSE management is a collaborative effort, combining department-specific initiatives with the specialized support from HSE Advisors, who provide essential first-line assistance.

## Programs

The HSE program outlines detailed frameworks for essential activities scheduled throughout the year. This includes internal and external audits and verifications involving both operational and administrative departments, clients, and subcontractors. Risk analyses are conducted at local and company-wide levels. The program also includes HSE campaigns like "Always Safe," "9 Lifesaving Rules," and various preventative themes, aimed at a safety-conscious culture within SAR.

Continuous improvement is a fundamental aspect of the HSE principles. Systems and programs are in place to capture improvement suggestions from all levels of the company, encouraging involvement in improving HSE practises as well as optimizing how we work. SAR is dedicated to the reinforcement of positive changes, ensuring effective implementation and lasting compliance.

The HSE program goes beyond a set of targets; it is an adaptable and evolving framework that re-

flects the company's dedication to the well-being of its employees, the preservation of the environment, and improvement of its operational processes.

## Certifications

**Our Management System is certified according to NS-EN ISO 14001:2015 and NS-EN 9001:2015.**

## What we want our stakeholder and customers to know

SAR is committed to comply with customers' HSEQ standards, while at the same time our own standards must be adhered to. SAR is dependent on close cooperation with all our partners. In order to be able to deliver waste handling services safely and to a very high standard, it is important that we openly share each other's assessments and stimulate frank and open dialogue. Continuous improvement of our HSEQ system does not happen in a isolation, but in open dialogue with customers, vendors and government agencies.

*Continuous improvement is a fundamental aspect of the HSE—principles.*





# People, Training & Competencies

Training and competence are of utmost importance to ensure high quality HSEQ. Proper training and development are paramount to ensure that our people are safe at work and that our customers know they can trust the work we do.

Training and development are also important in our work towards professionalizing the company and broadening our horizons on what is possible in the Waste Chain Management industry.

SAR AS encourages our employees to pursue educational opportunities through training and development, through both internal and external sources. For many employees in our industry a certificate of apprenticeship is an important step to showcase their skills, as well as build confidence.

A focus on learning and developing is necessary for SAR to be a learning organization ready to handle the demands and challenges of the future, and that starts with learning culture and employees with an interest in developing themselves at work.

In 2022 more than 650 courses were completed at SAR, eight people got their certificates of apprenticeships, and we had seven apprentices and three trainees onboard.

SAR is a diverse company, and across our locations on the Norwegian coastline we had 22 different nationalities among our employees, and we had 13 female leaders in the company.

Training, development and diversity in numbers	2022
Courses completed	654
Trainees	3
Apprentices	7
Female leaders	13
Nationalities	22
FTE under 30	58
FTE between 30-50	147
FTE over 50	90
Total FTE	296
Employee Turnover	18%





## Training & education as core of SAR

Training and education is an important part of making sure that hazardous waste is safely and environmentally good taken care of.

**Carina Robberstad**, one of our environmental advisors held in 2021 and 2022 lectures on the topic of chemistry at the first ever officially approved education in hazardous waste.

Fagskolen in Vestfold and Telemark in collaboration with the Norwegian Association for Hazardous Waste (NFFA) has taken the initiative to establish an approved course in hazardous waste. Companies that handle hazardous waste in Norway are defined to have a critical role in society and are subject to extensive regulations and government permits.

The employees in these industries represent a wide range of education, both general higher education and practical experience. We think it is incredibly important to establish an arena to learn and to share knowledge on how to properly handle hazardous waste.

The chemical properties of the waste also determine the downstream solution, i.e. whether the waste is recycled, treated, recovered to produce energy or deposited.

As a former lecturer, I think it is fun and rewarding to teach. This is the first course in Norway of its kind, and it gives me great motivation that there is so much interest in the study (long waiting list). In this course, I will mainly focus on basic chemistry, but I will also have the opportunity to link the chemistry to several practical examples from challenges we encounter with our customers and partners in SAR.

I am grateful and excited to be given the opportunity to take part in this. In my current position as an environmental advisor in SAR, I get to use my chemistry background, advise and teach.

### Carina on her thoughts and expectations

When working with hazardous waste it is crucial to have an understanding of the chemical properties and hazards due to exposure, environment, classification, transport, handling and packaging.



*I have gained a lot of good knowledge in hazardous waste and waste treatment that I would not have managed without the experience and knowledge that lies in the company.*

**Carina Robberstad**





# Environnement

## Climate & Energy

### Climate Impact

Reducing greenhouse gas emissions and climate impact is a global challenge, affecting all levels of society, from governments to individuals. Failure to combat climate change presents significant risks of causing serious damage, both from the human perspective and for destruction of economic value.

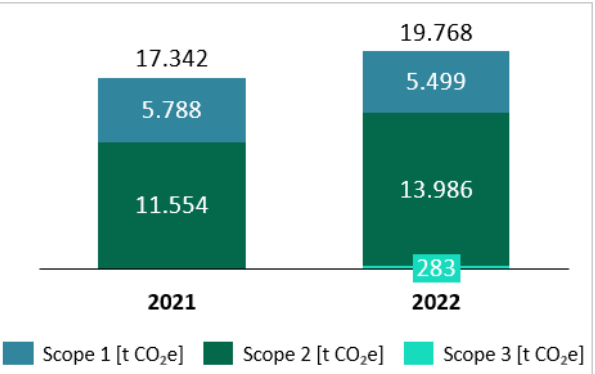
The private sector has an important role to play in reducing emissions, both from operations and from the value chain. SAR AS follows the Greenhouse Gas (GHG) protocol collecting data and reporting emissions.

In 2021 SAR AS started with climate emission accounting for Scope 1 and 2. In the 2022 report we

have started to include the first Scope 3 categories. The main sources of emissions for SAR AS are combustion of diesel, Marine Gas Oil and purchased electricity. Emissions are reported for Scope 1 (fuel consumption), Scope 2 (electricity) and Scope 3 (value chain). Emissions data for Scope 1 and 3 are collected on a yearly basis, Scope 2 monthly. The main challenge for the next reporting period for SAR is the mapping of the remaining categories and emissions of Scope 3.

Figure 1 and Tabell 1 presents the emissions from 2021 & 2022 with the market-based approach. For more detailed information, data and the location based method take a look at our 3<sup>rd</sup> party audited:

[Greenhouse Gas Emissions Report 2022](#)



SAR Total Emissions, Market-based Scope 2



Gross carbon footprint - SAR AS	2021 [t CO <sub>2</sub> e]	2022 [t CO <sub>2</sub> e]
Scope 1( direct emissions)	5 788	5 499
Scope 2 (Indirect emissions, Market-based)	11 554	13 986
Scope 3 (Value chain emissions)	NA	283
Total carbon footprint	17 342	19 768

SAR Total Emissions, Market-based Scope 2





## Energy consumption

SAR AS operations consume energy mainly from diesel, marine gas oil and purchased electricity. A high energy consumption contributes to negative environmental impacts, whereas efforts to reduce and make energy use more efficient provides a positive contribution to mitigating climate impact.

Since energy prices and the risk of grid capacity constraints have been increasing due to geopolitical factors, there are also economic benefits and positive societal impacts associated with reduced energy consumption.

SAR AS aims continuously to reduce its energy consumption through a transition to using more energy-efficient equipment and optimizing processes and transports. Energy consumption is reported at Group level for Scopes 1 and 2, which includes consumption of fuel for internal operations and from purchased electricity.

Consumption from marine gas oil connected to shipping and sea logistics is to be reported in Scope 1 since SAR AS has operational control of the boat Amalie.

Electricity	2021 [kWh]	2022 [kWh]
Risavika	7 217 991	9 091 161
Tananger	1 039 956	969 732
Mongstad	2 536 201	2 678 202
Florø	490 852	410 167
Averøy	11 482 916	10 753 250
Kristiansund	222 605	169 047
Sandnessjøen	2333 521	1 798 116
Hammerfest	3 204 404	1 991 315
<b>Total</b>	<b>28 528 446</b>	<b>27 860 990</b>

Electricity consumption 2021 & 2022.

Fuel	2022 [litre]	2022 [litre]
Fugitive emissions	-	-
Process emissions	-	-
Diesel	1 314 468	1 320 941
Petrol	4 185	4 734
Marine gas Oil Sea logistics	892 395	760 281
<b>Total</b>	<b>2 211 048</b>	<b>2 085 956</b>

Fuel consumption 2021 & 2022.

## Water Treatment & Emissions

SAR Mongstad is a department with a Service and a Treatment facility where SAR treated in 2022 114.512 m3 of water back to nature which makes Mongstad the biggest water treatment facility for hazardous waste in Norway.

### Water Treatment

The water treatment facility has an operational permit given from the Norwegian Environment Agency (Miljødirektoratet) in Oslo. To ensure compliance with regulations and regulations in the permit, SAR uses internal laboratory and external laboratories where samples of emitted water and emissions are analysed on a daily and monthly basis. The table below shoes the parameters and components covered by the permit and our reported values.

In 2022 SAR AS had no cases acute emissions to external environment that can have an environmental impact. SAR has recorded three cases of emissions which can have no impact to external environment.

Acute emissions to external environment	2022
With no impact	3
With possible impact	0

Emissions to water and soil .

### Emissions

SAR AS service and treatment facilities manage various types of waste and materials that could lead to contaminants being emitted into soil and water resulting in a negative environmental impact. There are a number of measures to prevent this, like physical barriers, cleaning of rainwater, maintaining of filters and individual plans for each location and their permits.

Water Treatment emissions	Total organic carbon (TOC)	Mercury	Cadmium	Lead	Arsenic	Chromium (trivalent)	Nickel	Copper	Sum PFAS	Hydro-carbon Oil Index
Total discharge amount (kg/year)	32 904	0	0,04	0,39	0,85	0,98	26,77	4,26	0,179	193,78
Permitted discharge yearly (kg/yearly)	122 500	0,4	1,2	3,1	6,1	6,1	36,8	12,3	0,370	1 225

Annual reported values to MDIR 2022.



# Waste handling& Circular economy

## Our Commitment to the Waste Hierarchy Pyramid:

At SAR, we are dedicated to sustainable waste management practices, aligning our operations with the principles of the waste hierarchy pyramid. This approach prioritizes waste prevention, maximizes recycling, and minimizes the environmental impact of our activities.

### Prevent:

Our top priority is waste prevention. We achieve this by collaborating with clients to reduce waste generation at the source. This involves advising towards and implementing efficient production methods, and promoting sustainable consumption.

### Reuse:

We encourage the reuse of materials wherever possible. Our team actively seeks opportunities to repurpose or refurbish waste materials, extending their life cycle and reducing the need for new resources. We also work with our clients to facilitate the exchange or donation of usable materials to organizations that can benefit from them.

### Recycle:

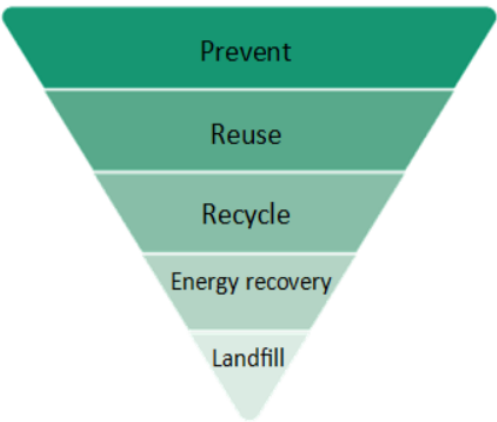
Recycling is a key component of our waste management strategy. We have developed advanced sorting and processing facilities to ensure a high rate of waste material recovery. Our efforts focus on transforming waste into valuable new materials, thereby reducing our reliance on virgin resources.

### Energy Recovery:

For waste that cannot be reused or recycled, we collaborate with suppliers who employ energy recovery methods. The state-of-the-art energy-from-waste plants convert waste into electricity and heat, contributing to energy generation while minimizing landfill usage.

### Landfill:

Landfilling is our last resort. We strive to minimize the amount of waste sent to landfills through our effective implementation of the above steps. When landfilling is unavoidable, we ensure that it is done in an environmentally responsible manner, adhering to strict regulations and standards.



## Circular economy

In the realm of sustainability, the concept of circular economy stands as a beacon of innovative environmental stewardship. It fundamentally challenges and reimagines the traditional linear economy model of 'take-make-dispose' by promoting the reduction, reuse, and recycling of materials. This transformative approach not only mitigates waste and environmental impact but also fosters economic growth through sustainable practices.

In a circular economy, every end-of-life product is viewed not as waste, but as a valuable resource for another cycle of use. Our company's commitment to integrating circular economy principles into our operations is a testament to our dedication to environmental conservation and sustainable business practices.

2022	Risavika	Tananger	Mongstad	Florø	Averøy	Kristiansund	Sandnessjøen	Hammerfest	Unit
Hazardous waste received	33 520	73 800	117 955	35 605	95 212	23 849	11 968	11 838	(Tons)
Non-Hazardous waste received	-	-	12 559	8 102	-	5 685	2 226	4 397	[Tons]
Sum received	33 520	73 800	130 513	43 708	95 212	29 535	14 194	16 236	[Tons]
Hazardous waste sent downstream (Internal & External)	11 089	68 155	23 169	35 342	61 625	23 390	15 107	8 828	[Tons]
Non-Hazardous waste sent downstream—(External)	21 531	-	14 219	8 011	31 943	5 842	5 266	6 188	[Tons]
Sum sent downstream	32 620	68 155	37 388	43 354	93 569	29 232	25 241	18 766	[Tons]
Waste2product	850	-	-	-	2 790	-	-	-	[Tons]
Waste2nature	-	-	114 512	-	-	-	-	-	[M3]

Annual reported waste handling data.



### SAR CapOil - A success story

We have achieved a significant milestone in sustainable waste management: for the first time, hazardous waste from the offshore industry has met the End of Waste Criteria. This success was realized through our product, SAR CapOil, developed in collaboration with our dedicated customers and partners. Our commitment to expanding our catalogue with more products like Circular Product by SAR (CPS) remains steadfast.

The TCC recovered oil, a key component of SAR-CapOil, stands out for its high quality. Its low solids content and chemical balance, akin to base

oils used in drilling muds like EDC95/11 and EDC99DW, make it versatile for various applications. The superiority of our recovered oil is attributed to our technology, which maintains the oil's integrity by avoiding heat damage during processing. Remarkably, the recovered oil constitutes about 15% of the volume of treated cuttings on site. This achievement is a major stride in climate action, transforming what was once 'waste burning oil' into a reusable and sustainable product – epitomizing our ethos of "Turning waste into values."

### Examples of Other Circular Projects at SAR:

- Repurposing discarded, unused chemicals in collaboration with a chemical supplier.
- Transforming waste chemicals into water treatment processes at SAR Treatment Mongstad.
- Conducting tests on MEG waste in collaboration with chemical producers.
- Reprocessing gas cylinders containing harmless gas, in partnership with metal reception facilities.
- Recycling sandblasting sand that was previously unused.
- Reusing discarded cement waste after obtaining necessary documentation.
- Returning and repurposing discarded extinguishers.
- Recycling unused hand sanitizer.
- Collaborating with a drilling fluid company to reuse discarded drilling fluid.



Karen Aanestad, Sustainability Director.

Through these diverse projects, we continue to lead in the field of circular economy, demonstrating our unwavering commitment to environmental sustainability and innovative waste management solutions.



### Waste & circular economy consultancy services

SAR's Sustainability Department offers specialized consultancy services in Health, Safety, and Environment (HSE), waste management, and circular economy. Our experienced advisor team, equipped with extensive knowledge gained through diverse client engagements, provides tailored, eco-friendly, and cost-effective solutions in waste management.

Our consultancy covers a wide range of services including environmental analysis, waste management planning, and CO2 footprint reporting. These services are underpinned by our Waste Chain Management™ (WCM®) concept, which focuses on waste reduction, improved recycling, and resource optimization.

This approach not only minimizes waste generation but also extends the lifecycle of resources, aligning with our commitment to sustainable practices. Our team's expertise extends to on-site support, including offshore environments, and

emphasizes training in eco-friendly waste management practices. We actively engage in setting and achieving environmental goals for our clients, helping them reduce their environmental impact in line with the UN Sustainable Development Goals.

In summary, SAR's consultancy services play a pivotal role in guiding companies towards sustainable waste management, demonstrating our dedication to environmental stewardship and sustainable development.

Courses and Participants	2022
Participant	108
Courses	9



# Compliance and Partnerships

## Compliance

In alignment with Norway's stringent environmental regulations and governance framework, SAR is committed to upholding the highest standards of compliance. We prioritize environmentally responsible practices, ensuring the proper disposal, recycling, and treatment of waste materials. Through transparent governance measures, we aim to foster trust in among stakeholders and contribute to sustainability goals, actively engaging continuous improvement to minimize environmental impact and enhance overall waste management efficiency."

In our HSEQ Policy we have the following statement: "We shall be in compliance with all applicable obligations". This means rules and regulations, contracts and internal requirements as described in our Management System. Management system covers Quality, External Environment and Working environment. The Management System is certified according to ISO 9001 and ISO 14001.

Our industry is heavy regulated. Detailed permits from Environmental Authorities are in place for all locations. In 2022 we held in total 21 Permits. This is our licenses to operate and there is a high focus in day-to-day operation to always work and behave in compliance with all detailed requirements. New BAT-regulations for the waste industry were introduced from August 2022.

We have conducted a comprehensive GAP analysis and demonstrated unequivocal compliance with the new Best Available Techniques (BAT) regulations for the waste industry, which were introduced in August 2022.

Through diligent assessment and strategic adjustments, we have ensured that our facilities adhere to the stringent requirements outlined in the new regulations. This accomplishment reaffirms our commitment to environmental responsibility and regulatory adherence, positioning our company as a leader in the waste management sector. We will continue to proactively monitor and enhance our operations to meet and exceed industry standards, contributing to a sustainable and compliant future."

Compliance & Permits	2022
Permits	21
External audits performed at SAR	22
Internal audits performed at SAR	23
External audits performance at Costumers & suppliers	7
ISO certification Management System	ISO 9001 & ISO 14001





## Responsibility & Ethical standard

Ethical guidelines are communicated through a leadership policy in the SAR management system, and all employees sign the policy when they start working at SAR, as well as a non-disclosure agreement regarding company sensitive information. The ethical guidelines inform employees on our code of conduct, expectations regarding rules and regulations, and we are expected to treat one another at SAR.

In addition, SAR has established an Anti Corruption Policy that applies to all SAR employees, advisors, consultants, agents, partners and other intermediaries, as well as SAR Board of Directors.

Our ethical standard is part of SAR's approach to Social Responsibility, which is in place to ensure that SAR meets the highest standards of corporate citizenship by protecting the health and safety of our employees, by safeguarding the environment and by creating a long-lasting positive impact on the communities where we do business. We also expect, and encourage, all employees to report any breach on our routines or unacceptable conditions.

SAR is committed to respecting all human rights where we operate and endorse the Universal Declaration of Human Rights (UDHR), and implement international voluntary initiatives designed to protect the environment and human rights, including the United Nations Global Compact and the Voluntary Principles on Security and Human Rights. We expect our contractors and suppliers to respect our Code of Business Conduct and Ethics and related policies, or to adopt equivalent standards, and to train their employees accordingly.

## Stakeholders and Partners

### Owner

Stirling Square Capital Partners (SSCP)\* acquired SAR in 2012, and in 2022 we celebrated 10 years with our dedicated and supportive owners. SSCP acknowledges the paramount importance of responsible investing and promoting sustainable practices among their portfolio companies. SSCP is dedicated to making substantial improvements to the ESG credentials of SAR. We appreciate our owners dedication and close support in all parts of our business and particularly on our efforts towards environmental sustainability and value creation

\*Private Equity Company, owners of SAR through their company Sscp Sar Parent S.A.R.L

### Partners

SAR AS service and treatment facilities manage various types of waste and materials that could lead to contaminants being emitted into soil and water resulting in a negative environmental impact. There are a number of measures to prevent this, like physical barriers, cleaning of rainwater, maintaining of filters and individual plans for each location and their permits.

In 2022 SAR AS had no cases acute emissions to external environment that can have an environmental impact. SAR has recorded three cases of emissions which can have no impact to external environment.

## Partnerships in industry organisations

### Norsk Forening for Farlig Avfall – (Norwegian Association for Hazardous Waste).

Our very own Director of Sustainability is member of the board of Norsk Forening for Farlig Avfall (NFFA). NFFA and the partners have a continued focus on sustainable solutions, circular economy and removing toxins from the environment. Furthermore they work for equal frame conditions for the industry and has a close dialogue with authorities to obtain these goals.

### Norsk Industri- Norwegian Industry

SAR is an active member and participant in Norsk Industri's group for waste and recycling. They work to secure the frame conditions for the waste handling industry and ensure a strong position,

enabling sustainable processes. They influence the development and regulations nationally and in Europe. Another main focus is standardisation of ESG reporting, including requirements from the EU and their effect on our industry.

### Offshore Norge- Offshore Norway

Historically SAR, in close cooperation with the major E&P companies on the NCS, has been instrumental in developing guidelines with Offshore Norge, such as NOG093 to secure safe and sustainable operations in the industry.

*The ethical guidelines inform employees on our code of conduct, expectations regarding rules and regulations, and we are expected to treat one another at SAR.*





## Social Sustainability & Responsibility

Contributing to the first ever officially approved education in hazardous waste.

### NOFO-SAR crises teamwork

SAR has partnered with Norsk Oljevernforening for Operatørselskap (NOFO) to ensure preparedness in case of an oil spill crisis offshore. We are proud to fill the role and advise NOFO on best practices and solutions for handling the waste and polluted materials that could derive from an oil spill incident.

Einar has extensive experience with waste law and has even written a book on the subject! He has, together with SAR and other key Norwegian waste management companies, formed an expert group.

Through this collaboration they will identify and explore the legal dilemmas of the circular economy. More specifically, the cases where there are contradictions between the political desire for increased recycling of waste versus regulations for use of waste as both raw material and as a product.

### Education for Society

We take pride in that SAR Environmental advisor Carina Robberstad contributed throughout 2022 as lecturer at Fagskolen Vestfold og Telemark on the topic of chemistry at the first ever officially approved education in hazardous waste.

### Partners on securing the environment in Young Entrepreneurship student competition

SAR contributed to Bryne secondary school (8<sup>th</sup>-10<sup>th</sup> grade) student competition of Young Entrepreneurship in 2022. When we were invited to be part of the jury while students from Bryne competed in entrepreneurship we didn't hesitate for a second. What a joy so see such creativity and bright young minds at work with reuse and value creation as the goal. Young Entrepreneurship is a nationwide organization that, together with the education system, the business community and other participants, works to develop children and young people's creativity, creative joy and belief in themselves. It was fantastic to be part of this and see such great environmental commitment among the young people. This bodes well for the future and we hope to see many of these great minds in our industry in the future.

### Sponsorship of PhD on the dilemma of the circular economy

At SAR, we strive to transform waste into value. That is why we are beyond proud to support and contribute to Einar Bratteng's PhD-initiative.

With a growing political focus on the sustainable development, waste recycling has become increasingly relevant. However, the challenge is to understand the legal restrictions on the utilization of waste for products and raw materials in light of the political goals for waste recycling.



### Career day at the University of Stavanger

SAR attended the career day at the University of Stavanger with three proud ambassadors. Throughout the day they shared information about the exciting challenges in the market and the opportunities available in SAR. Many ambitious students clearly shared the passion for the environment and sustainable solutions. This really bodes well for future for an exciting and important industry in continuous development!







*turning waste to value*

Sustainability Report 2022