



TFC
BIOMASS-BASED CHEMICALS

Sustainability report 2023

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Our Story

TransFurans Chemicals is a prominent producer of furfuryl alcohol, polyfurfuryl alcohol resins and furfural derivatives.

TransFurans Chemicals is a pioneer in Furfural derivatives. The production facility, established in 1972 as part of the chemical division of Quaker Oats, is now proudly owned by Central Romana Corporation Ltd., the leading sugarcane producer in the Dominican Republic.

In partnership with our sister company, International Furan Chemicals, managing commercial operations from the Netherlands and Canada, we proudly lead the European and North American markets.

TFC is based in Geel, alongside the Albertkanaal and 50 km east of Antwerp, housing production, logistics, R&D, and administrative functions. International Furan Chemicals serves as the sales arm, with offices in the Netherlands, the UK, and North America.

Currently, TFC is investing in expanding its present manufacturing capabilities to enable growth in new industries and regions.



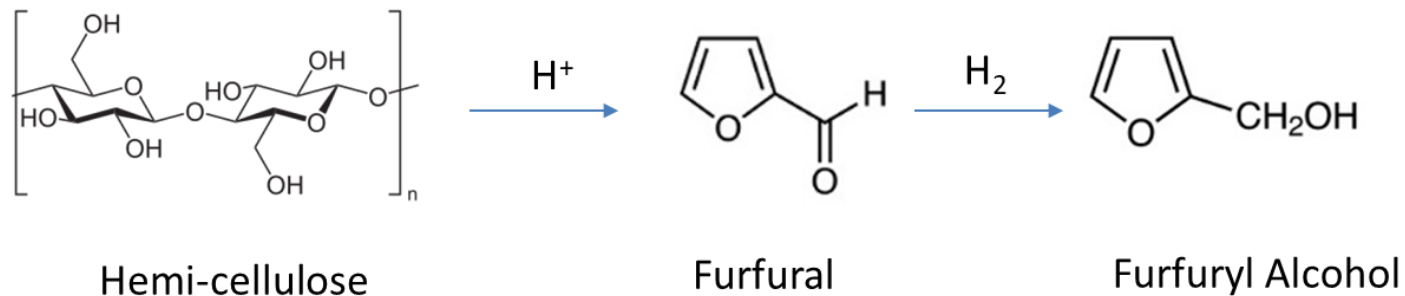
TFC at a glance

We turn agricultural crop waste into bio-based chemicals and polymers for the production of sustainable end-use materials with a high bio-content and a low carbon footprint.

Sugarcane is where it all starts. It is one of the most energy-efficient and intrinsically sustainable crops on the planet. Sugarcane is a C₄ carbon fixation plant, which means it is equipped with a turbocharged method of photosynthesis.

The plant provides the food products (sugar, molasses) Central Romana Corporation makes, and supplies the water for their processes. The waste from the sugar mill is the plant fibre, i.e. (hemi)cellulose and lignin from which they produce furfural, TFC's raw material. After furfural extraction, the remaining residue is used for the production of the renewable energy (electricity and steam) which powers their operations. At TFC's facility furfural is converted into furfuryl alcohol (FA) by means of catalytic hydrogenation and is further processed in polyfurfuryl resins and derivatives.

As pioneers in bio-based chemical production, we drive the transition toward sustainable industrial solutions. At TFC, we are not just envisioning a greener future – we are building it, one molecule at a time. Sustainability is not just a goal, it is a core value.



Our values

Our core values help us work as one team and reflect our future ambitions.



We are **RELIABLE**.

Our actions match our words. We deliver on time and in full.



We are **RESPECTFUL**.

Respect for our people, planet and profits are always at the core of our behaviors. We foster honest feedback, open dialogues, mutual respect and loyal relationships.



We are **INNOVATIVE**.

We leverage market insights, customer inputs and our extensive expertise to maintain and grow our competitive advantage through innovation.



We **CARE** about a **SUSTAINABLE** future.

We are good stewards of our company and the environment to the benefit of global society, ensuring prosperity today



Applications



TransFurans Chemicals BV is a prominent producer of furfuryl alcohol, polyfurfuryl alcohol resins and furfural derivatives.





Our products are used in:

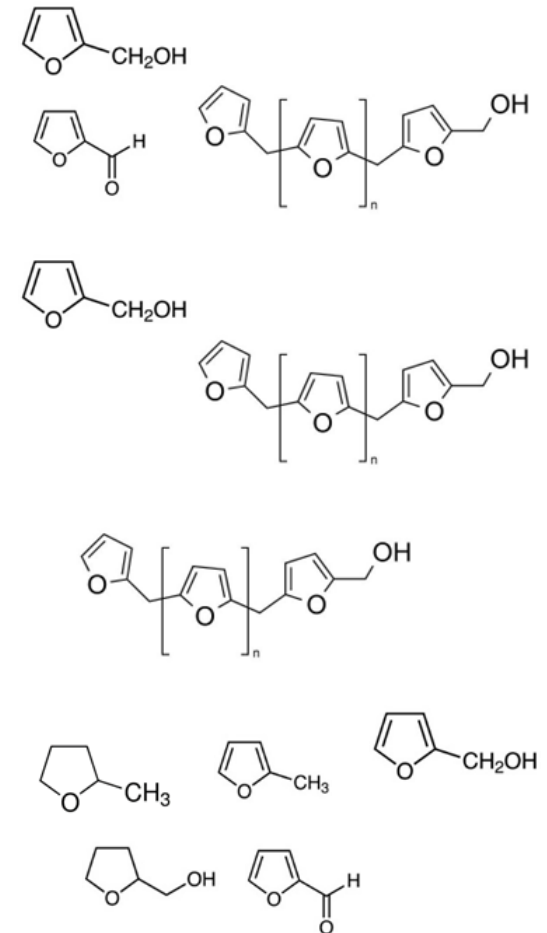
- Industrial resin applications in foundry, refractory and anti-corrosion industry
- Wood modification and building products
- Polymers for composites in transport and construction
- Raw materials and solvents for production of active pharmaceutical intermediates
- Raw materials to produce ingredients for cosmetics (moisturizers, lotions and creams)

Foundry and renewable energy: Furfuryl Alcohol (FA) plays a vital role in the production of furan foundry sand binders which are extensively used to produce high quality sand cores and moulds for big metal casting. Furan foundry binder is a generic term for binders containing FA. Large metal castings play a crucial role in the energy transition (hubs for wind turbines, compressors for green hydrogen ...) to tackle climate change. About 1 ton of FA based binder is used per MW of installed wind power.

Markets

TransFurans Chemicals BV is a leading supplier of furfural derivatives and polymers used across multiple industries.

<p>HEAVY INDUSTRIES</p>	<ul style="list-style-type: none"> • Foundry • Refractory • Anti-corrosion 	
<p>BUILDING & CONSTRUCTION</p>	<ul style="list-style-type: none"> • Insulation • High Pressure Laminates • Modified wood 	
<p>AEROSPACE, RAIL, PUBLIC TRANSPORT, AUTOMOTIVE</p>	<ul style="list-style-type: none"> • Fire resistant composites • Biocomposites / NFRP 	
<p>PHARMA, COSMETICS AND FRAGRANCES</p>	<ul style="list-style-type: none"> • Solvents & Raw materials for API production • Raw materials for cosmetic ingredients and fragrances 	



Innovation to a sustainable future

As the future of chemistry turns green, TransFurans Chemicals is at the forefront of innovation, transforming agricultural waste into valuable biobased chemicals. Our commitment to sustainability is evident through our leadership in producing Furfuryl Alcohol, Polyfurfuryl Alcohol resin systems and derivatives, driving impactful change toward a greener and more sustainable future.

Bio-based solvent contributes to green process technologies in pharmaceutical industry

2-Methyltetrahydrofuran (MeTHF) is one of our key products in the further development of the company. During 2023–2024, we are constructing a new manufacturing plant featuring an in-house-developed hydrogenation process, set to go online by the end of 2024. This advanced technology is also being applied to innovative furan molecules like hydroxymethylfurfural. Part of this development is carried out within the NewWave Project (newwave-horizon.eu), which focuses on creating sustainable bio-based products.

MeTHF offers a sustainable alternative to traditional fossil-based solvents like Tetrahydrofuran (THF) and Dichloromethane (DCM). With established applications in the pharmaceutical industry—particularly as a solvent for Grignard and organometallic reactions—MeTHF showcases exceptional versatility and supports the transition to greener process technologies.

Key Advantages of MeTHF:

Supports Green Chemistry: Improves E-Factors (less waste per product) in pharmaceutical processes, enabling cleaner production, reduced energy consumption, and lower overall costs.

Enhanced Efficiency: it is easily separated from water and the higher boiling point allows reactions at elevated temperatures.

Improved Yields: Reduces by-product formation, leading to higher product selectivity.

Safer Handling: Lower tendency to form peroxides compared to Tetrahydrofuran (THF).

Environmental Impact: Reduces carbon emissions and minimizes environmental footprint.

These properties enhance process efficiencies, reduce environmental impact, and provide significant cost savings per kilogram of product when MeTHF is used as a reaction solvent.

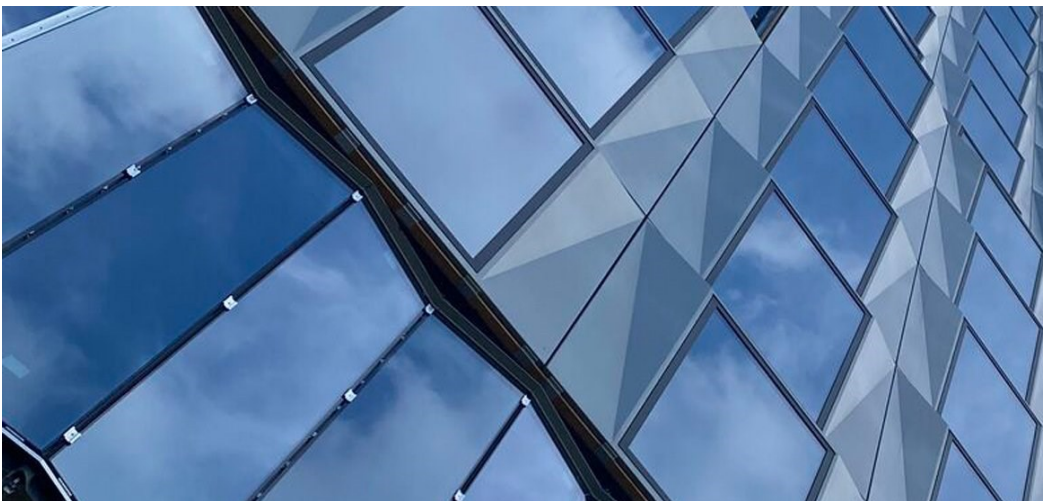


Innovation to a sustainable future

Heavy industry: In our traditional markets, foundry, refractory and anti-corrosive have been integrated in our research efforts to provide healthier and more sustainable chemical technology by avoiding the use of solvents and reducing petrochemical ingredients in favour of renewable polymer products. In 2023 industrial trails were completed with low VOC biobased replacement systems for solvent based petrochemical refractory resins.

Wood modification: Furfurylation of fast growing plantation pine wood provides a visual appealing, sustainable alternative to scarce tropical hardwood often used for decking and cladding. To improve its physical characteristics, the untreated wood is protected by locked-in furfuryl alcohol polymers in the wood cell walls. TFC is a key investor in the continued development of this technology.

Composites: PFA or polyfurfuryl alcohol resin systems are biobased alternatives and technical equivalents to a multitude of petrochemical plastics. Fire resistant materials were developed for automotive, construction and building applications. The unique properties (biobased origin, excellent thermal stability, fire resistance and low toxicity and emissions, high mechanical strength) of these bio-based fire-resistant composites make them a compelling choice for industries seeking greener and more durable material solutions. Composites create unprecedented possibilities compared to traditional construction. During 2023, our R&D efforts focused on enhancing catalytic systems of polyfurfuryl alcohol (PFA) resin systems. These advancements were tailored to accommodate diverse applications and composite production methods, maximizing the intrinsic fire resistance properties of PFA resin systems.



Furfurylated wood is a sustainable and long-lasting alternative for tropical hardwood



Building a greener future

For 50 years, TFC is a pioneer in chemicals from biomass.

Furfural is the base chemical of today's furan chemistry. It can be produced from virtually any agricultural waste material by acid catalysed digestion of hemicelluloses. This process can be considered as one of the oldest forms of chemical biorefining. Furfuryl alcohol is the main derivative of furfural and is produced by catalytic hydrogenation.

- ◆ 100% of the carbon in furfuryl alcohol is bio-based.
- ◆ A high material efficiency factor of 1.0080 tons furfuryl alcohol per ton furfural input is reached. Side streams are used as a biofuel for energy production in our steam boiler or are recovered by distillation (e.g. 2-methylfuran).
- ◆ The production of furfuryl alcohol requires hydrogen. When taking into account hydrogen made from gas, the bio content of FA is approximately 98%. To reduce CO₂ emissions from grey hydrogen production, so-called blue hydrogen, with CO₂ capture in its production is a first step. Green hydrogen is the ultimate solution.



EcoVadis

Overall score

Percentile
98th ⓘ

↗ 77 /100

EcoVadis is known for assessing companies across various sustainability criteria, such as environmental impact, ethical practices, labor & human rights, and sustainable procurement. By participating in such assessments, TFC is demonstrating a commitment to transparency and accountability in these areas.

For 2023, the second year in a row, our Corporate Social Responsibility performance was rewarded with a EcoVadis Gold Rating. This overall result puts us among the top 5 percent of all chemical companies assessed by EcoVadis.



2023 highlights

◆ Sustainable procurement:

- * Supplier code of conduct ✓
- * Training sustainable procurement prepared ✓

◆ Energy policy ('Energiebeleidsovereenkomst'):

- * Prolongation of the Energy Policy Agreement (EBO) - 2023-2026 ✓
- * Develop a comprehensive energy plan to reduce both energy consumption and greenhouse gas (GHG) emissions in alignment with climate change targets (Scope 1 + Scope 2) ✓
- * Develop strategies to further increase the use of renewable energy and bio-based products ✓

◆ Permit for expansion of the production:

- * Evaluate the potential impact of the project on the integrity of protected nature areas ✓
- * An impact evaluation of Volatile Organic Compounds (VOCs) on air quality and human health involves assessing various aspects. ✓
- * Groundbreaking construction ✓

◆ CO₂ sequestration: Collaborate with customers to bring products to market that capture CO₂ during their lifetime or increase the bio-content. ✓

◆ Safety comes first: strive for zero accidents ✗

◆ Local evacuation exercise with fire department ✓

◆ Communicate TFC's sustainability goals and progress ✓



Sustainable Development Goals

Our shareholder, Central Romana Corporation Ltd (CRC) is the largest private employer in the Dominican Republic. CRC currently employs more than 25,000 people.

CRC operates in accordance with the ProTerra Standard for Social Responsibility and Environmental Sustainability. Use of GMOs or destruction of high conservation value area in agricultural production is not allowed.



Since 2005, our shareholder, Central Romana Corporation is an active contributor to the United Nations Global Compact (UNGC). Their communication of progress is readily available on the [Global Compact website](#).

In 2015, the Sustainable Development Goals (SDGs) were adopted by the United Nations and are a call for action to improve the lives of people while protecting the planet. TransFurans Chemicals BV also takes action on SDGs, and thus contributes to solutions for specific global challenges. CO₂ is taken up by sugarcane and the carbon is locked in during the lifetime of the products. By turning agricultural waste into biobased chemicals and polymers that allow customers to produce sustainable materials, we are actively doing our part and make a difference in the global reduction of CO₂ emissions.





PEOPLE

Our Employees

Our Team

With our leading global position, the shared success of TFC as an employer depends on the commitment and skills of each of our 44 employees, and their ability to live our values of reliability, respect, innovation and sustainability. At TFC, we recognize the importance of creating an environment that supports our people’s wellbeing and that ensures they get home safely after work every day.

All our employees have a permanent contract. We ensure that our overall compensation remains competitive, comprising both fixed and variable pay components linked to individual performance within specific roles. Additionally, there is a variable pay structure tied to overall business goals and safety performance.

Due to our global exposure, we have the privilege of operating in a diverse and international environment, across a wide range of sectors. Our employees, customers, partners and other stakeholders have been given empathy, such that we were able to navigate through challenges and changes.

Diversity, Equality & Inclusion

Our vision is to have a working environment where you can be yourself. TFC therefore aims to be a high-performing team of employees who feel they are part of the company and where every person can use their unique experiences and backgrounds regardless of gender, ethnicity, sexual orientation or any other characteristic. It is TFC’s responsibility to create this inclusive environment and respect the dignity and diversity of all people.

At the end of 2023, 13,6% of our workforce was female. This gender gap is representative of the chemical sector we operate in. Production is dominated by male operators. Our female employees work in our human resources, finance, commercial, procurement and logistic department as well as in our quality control and quality assurance.

Employment contract by gender	Female		Male	
	Full-time	Part-time	Full-time	Part-time
# 44	1	5	35	3

People development

Talent and professional development

We consider lifelong learning to be a very important pillar. Learning ensures that employees can keep up with the different facets of their work and get opportunities to grow within the organization.

TFC is committed to investing in training and development opportunities that benefit our employees, enhance their skills, and contribute to the success of our organization. We ensure equal access to training for all employees and collaborate with organizations like Co-valent (<https://www.co-valent.be>) to achieve this goal. Co-valent, a sectoral training fund, focuses on supporting employees in the chemical, plastics, and life sciences industries. It specifically serves those working under joint committees 116 (blue-collar workers) and 207 (white-collar workers). Governed jointly by employer and employee representatives, Co-valent designs training programs tailored to meet the current and emerging needs of the sector. By closely monitoring industry trends and developments, Co-valent gathers valuable insights from companies, employees, and partners, including sectoral competence centers, to provide relevant and impactful training solutions. In 2023 training hours have slightly increased. We recorded an average of 20 hours of training per employee. These numbers are an underestimation of the reality because internal training is not always recorded, while external training is. Sensibilisation to register all trainings will be implemented in 2024.

All employees are expected to participate in regular performance appraisals. They contribute to employee development, organizational success, and a positive work culture.

To promote technology, science, engineering and chemistry to young people, we facilitate internships such that students have their first working experience. This way they can challenge their theoretical knowledge and put it into practice. Our employees guide these students in their work and we see that young people are clearly engaged to work in a green company that turns agricultural crop waste into bio-based chemicals and polymers.

Employee health and well-being

As we believe that good health and well-being help to enhance our employee's working experience, protect their safety and inspire an innovative and engaged work culture, we must support our employees there-in. TFC therefore provides a wide range of insurances such as a long-term illness or accident insurance, healthcare and hospitalisation insurance and an invalidity insurance. The medical insurances are also valid and applicable to the partner and children of the employee which only emphasizes the importance of the employee and its family.

Taking into account the importance of the company goals, we strive to act as one team at TFC. The collective bonus is a good example in that respect as it encourages our employees to work together to achieve common goals.



Governance

Corporate governance is defined as the processes and control features that have been established to protect the interests of TFC's shareholders and other stakeholders such as employees, suppliers and customers. TFC's Code of Conduct provides an important guideline to ensure that company operations are ethical, compliant and appropriately manage risks like conflicts of interest, bribery, or any other corruption...

Through our values of reliability, sustainability, respect and innovation, we aim to maintain and strengthen our global leadership position and strive to do business in an honest and ethical manner. As part of this, we take a zero-tolerance approach to bribery and corruption and are committed to acting professionally, honest and with integrity in all our business dealings and relationships wherever we operate.

Employees play a crucial role in maintaining ethical standards within our organization. When they actively participate in upholding ethical standards, this not only protects TFC against misconduct, but also contributes to our reputation and long-term success.

Any knowledge of facts related to violation of ethical principles must be reported immediately in order to protect our people, customers, any other stakeholder and our business. We take allegations of corruption and bribery seriously and have a whistleblower procedure in place to ensure that such incidents are dealt with quickly and appropriately. We provide multiple channels to report concerns about e.g. corruption and bribery. Employees, contractors, suppliers and other stakeholders can choose the method they feel most comfortable with.

In 2023, TFC experienced zero whistleblowing and confidential counsellor incidents. This reflects our ongoing commitment to fostering a culture of transparency and accountability, where employees feel empowered to report concerns without fear of retaliation. While the absence of incidents is encouraging, we remain vigilant in our efforts to promote awareness of our whistleblowing policies and procedures and to address any potential barriers to reporting.



Information Security

TFC is committed to respecting the intellectual property and data of employees, customers, suppliers and other third parties in compliance with regulations, including the **General Data Protection Regulation (GDPR)**. We have technical and organizational means and measures in place to protect personal data against accidental, unauthorized or unlawful destruction, loss, alteration, provision or access.

These measures include:

- Preventing unauthorized persons from gaining access to systems in which personal data is being processed (*physical access control*);
- Preventing unlawful use of systems in which personal data is being processed (*logical access control*);
- Ensuring that the persons authorized to use systems in which personal data are processed only have access to those personal data for which they are authorized in accordance with their access rights (*data access control*).
- Ensuring that personal data is treated for the intended use and always in a responsible and secure manner during the electronic transmission, transport or storage of this personal data on an external memory, and that the intended recipients of personal data can be identified and monitored (*data transfer control*);
- Ensuring that it can be determined whether and by whom personal data has been entered, modified or deleted from systems in which personal data are processed (*access control*);
- Ensuring that personal data is protected against accidental destruction or loss (*availability check*);
- Ensuring that the personal data is only used for the intended goal and thus is not kept longer than necessary for that purpose (*control preservation*).





HEALTH & SAFETY

Customer health & safety

At TransFurans Chemicals BV, customer health and safety are paramount to our commitment to sustainability. We adhere to all local, national and international laws and regulations pertaining to chemical safety and the protection of our customers.

We prioritize safety by providing up-to-date, comprehensive safety datasheets and clear, accurate product labels for all our chemical products. Furthermore, we offer product usage guidelines and advice on safe handling and storage. These resources ensure that customers have the critical information needed to handle and use our products responsibly.

We also collaborate closely with the *Brandweer Informatiecentrum voor Gevaarlijke Stoffen* (BIG) to enhance the dissemination of safety information, enabling swift and effective responses to potential hazards. By integrating these measures into our operations, we ensure high safety standards, transparency, and trust in our products.

TFC will continuously review and update its safety data sheets and product labels to stay in alignment with evolving chemical safety regulations and industry best practices. We are committed to the ongoing improvement of customer safety.

Reach

We comply with the applicable REACH obligations for all products sold on the European market. TFC is the lead registrant for furfural, furfuryl alcohol, and 2-methylfuran.

When manufacturing hazardous substances, producers must ensure compliance with CLP (Classification, Labelling, and Packaging) regulations. Furthermore, they must provide an adequate risk assessment of substances and, if necessary, develop and communicate exposure scenarios for different users. TFC communicates this info in its extended safety datasheets.



Prevention

Working at a Seveso chemical plant poses obvious risks. Therefore Health, Safety and Environment are a top priority within TFC's daily operations. By this we mean safety in the broadest sense of the word. This concerns both occupational safety, product safety, as well as safety for the environment. Our target is to make every working day injury free.

Our Health, Safety and Environmental policies are based on the HSE requirements we describe in our **integrated QHSEE Management System** (Quality, Health, Safety, Environment & Energy). This system is certified according to the internationally recognized **ISO 9001** and **ISO 14001** standard and is regularly audited for effectiveness and efficiency and must be fully reviewed to identify deviations from best practices. Established rules, procedures, processes, and work instructions, which everyone must follow, must be readily accessible and unambiguous so that all employees can use it as a daily work tool to fulfil their assigned tasks. All employees have access to our health, safety, environmental and energy policies through our company intranet. They are designed to minimize safety risks and cover rules for operational control elements such as work permits, procedures for Management of Changes, safety training requirements ...

Workers are expected to report incidents and near misses. In a given month all information and data is gathered and our safety, health and environmental performance is reviewed at our management meetings. Opportunities for improvement are logged and actioned in short-term and longer-term plans.



In 2023, we had one lost-time accident.

All employees and contractors get a safety training.

For mandatory health checks for our employees we use the external service Mensura.

Emergency exercise 2023

On 21/11/2023 we organized a large-scale emergency exercise at our plant.

This exercise involved all TFC emergency procedures: start of evacuation alarm in control room, gathering of intervention members, gathering of everyone present at the site at the time of the emergency exercise, start-up crisis cell, deployment of on-site intervention team.

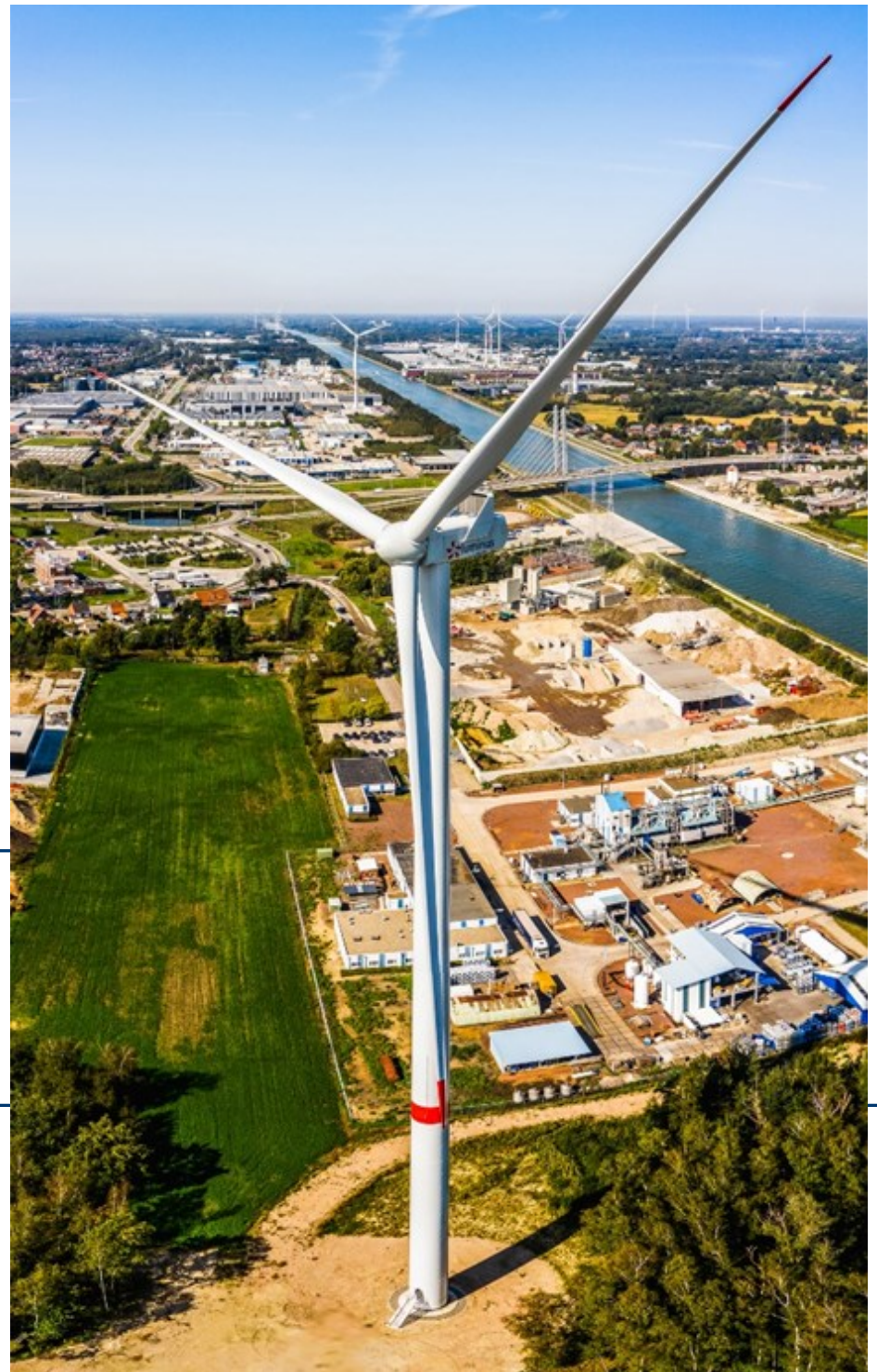
There was also a real deployment of an ambulance and the fire brigade including a command car, two multifunctional industrial car pumps and a ladder truck.

The exercise and cooperation between our intervention team and the fire department went well. Actions we have taken:

- in 2024 we will switch to fluorine-free foam;
- investigate the compatibility of the fire brigade's and TFC's extinguishing product;
- appointment of person to assist the intervention leader upon the arrival of emergency services.



ENERGY



Climate protection goals



Target 2030:
- 30% greenhouse gas emissions by 2030 compared to 2018

Our renewable chemistry is vertically integrated in sugarcane processing, where renewable energy is being utilized for the production of sugar, molasses and furfural. More than 3/4 of the total energy consumption is being produced from bagasse.

As a biomass based energy-intensive company, TFC is committed to energy efficiency and global climate protection. TFC has taken steps to reduce its environmental footprint by improving energy efficiency and using renewable resources. We are further working on our roadmap to decarbonization.

Since electricity is a significant part in the total energy use, a 3.5 MW wind turbine was commissioned at our premises. Close to 34% of this green electricity is directly injected to the plant, accounting for more than 66% of our electricity needs. Despite our growth plans, TFC commits to decrease its carbon intensity by 30% compared to 2018 by 2030 and we will develop a “net zero” emission strategy to reach carbon neutrality by 2050.

Energy

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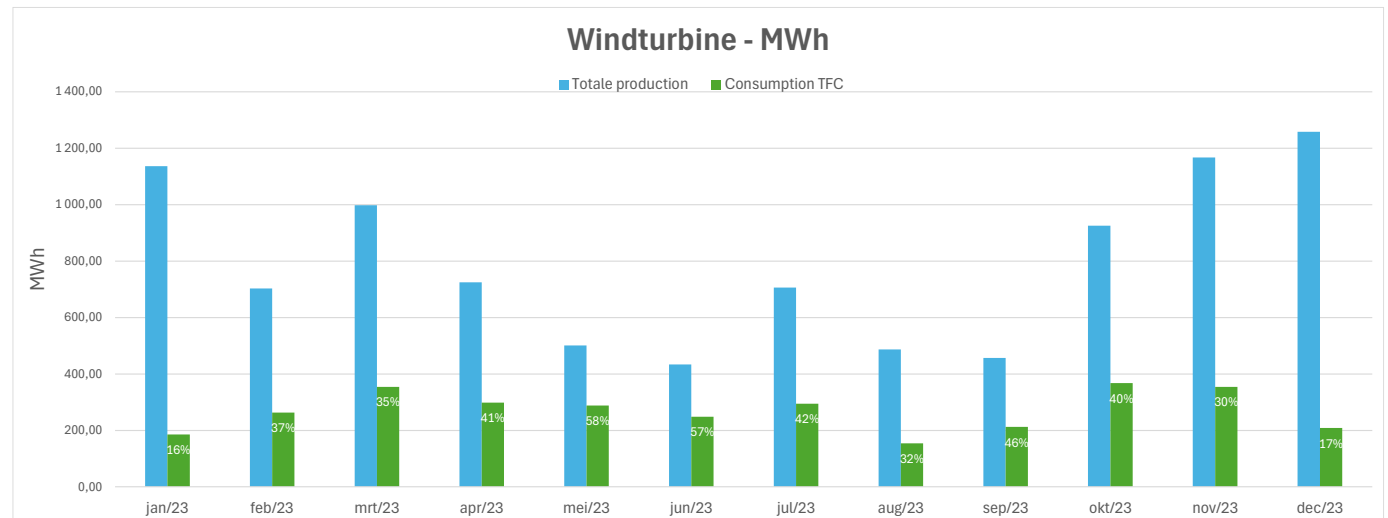
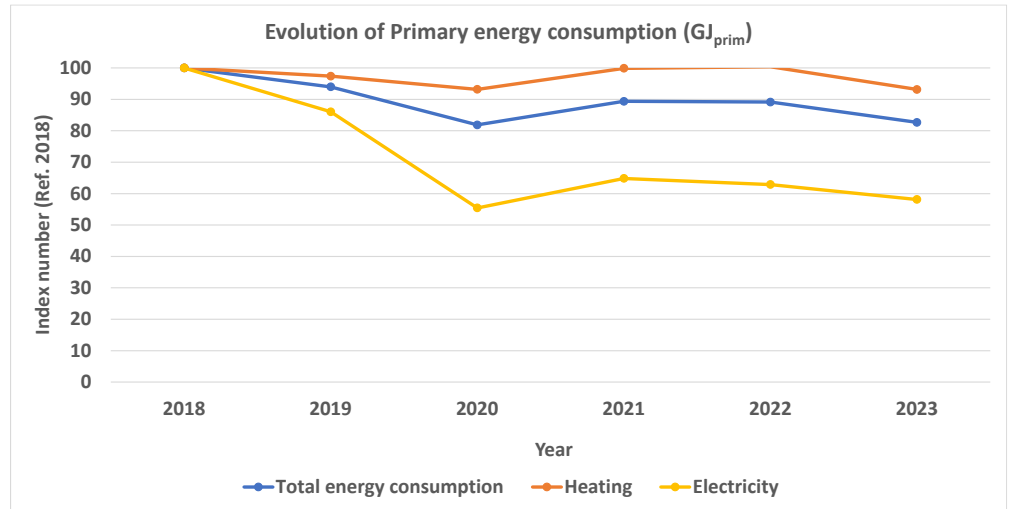
Our renewable chemistry is vertically integrated in sugarcane processing, where renewable energy is being utilized for the production of sugar, molasses and furfural. More than **75%** of the total energy consumption (3,889 TJp) is being produced from bagasse.

At TFC, the total energy consumed in 2023 was 128 TJp.

At our premises, a 3.5 MW wind turbine has generated 9499 MWh of wind power in 2023. Close to 34% of this green electricity was directly injected to the plant, accounting for 2/3 of our electricity needs.

Our thermal processes require steam, which is generated by high efficiency combustion of natural gas. Side streams from our processes are used as a biofuel and efficiently co-combusted in the steam boiler, which reduces our natural gas consumption by 6%.

In 2022, the total plant's primary energy consumption was 17% lower compared to the reference year of 2018.



GHG emissions

Our operations generate GHG emissions in the following ways.

Scope 1: We need thermal heat for our processes by combustion of natural gas. Side streams from our processes are valorised as bio-fuels in our steam boiler.

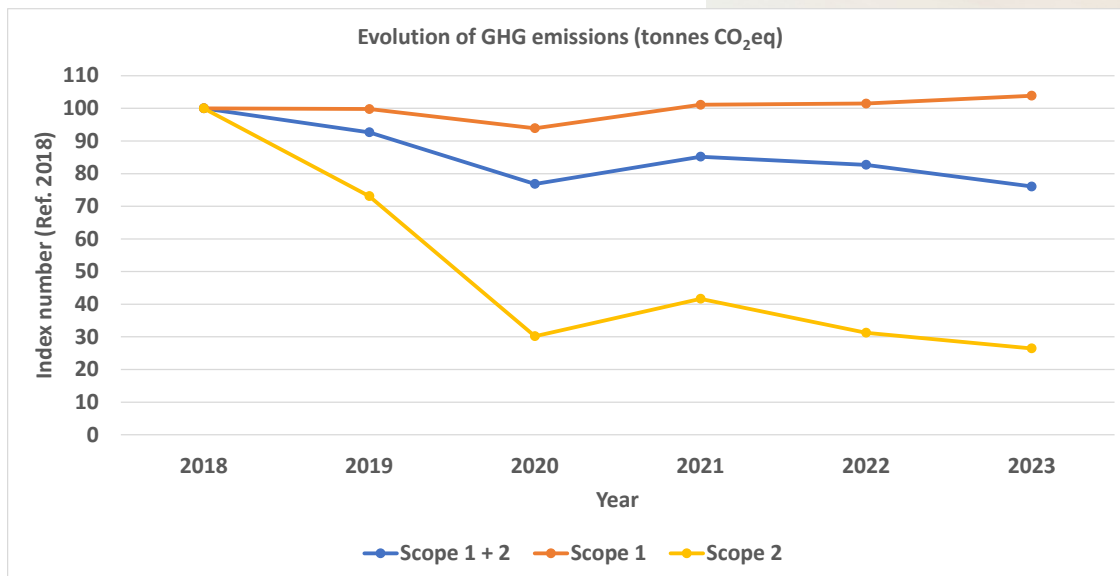
Scope 2: We require electricity to power our manufacturing facilities.

The greenhouse gas emissions at TransFurans Chemicals are mainly CO₂-emissions due to combustion of natural gas.

We are further working on our roadmap to decarbonization.

In 2023 66% of our electricity consumption comes from wind power (direct injection). The electricity from the grid comes from nuclear power, solar or natural-gas fired power stations.

By operational excellence and process improvements we continue to increase our efficiency and lower GHG emissions.



GHG EMISSIONS	2023
Scope 1 GHG emissions	5313 tCO ₂
Scope 2 GHG emissions	545 tCO ₂
GHG emissions intensity (Scope 1 & 2)	0.16 tCO ₂ /t product

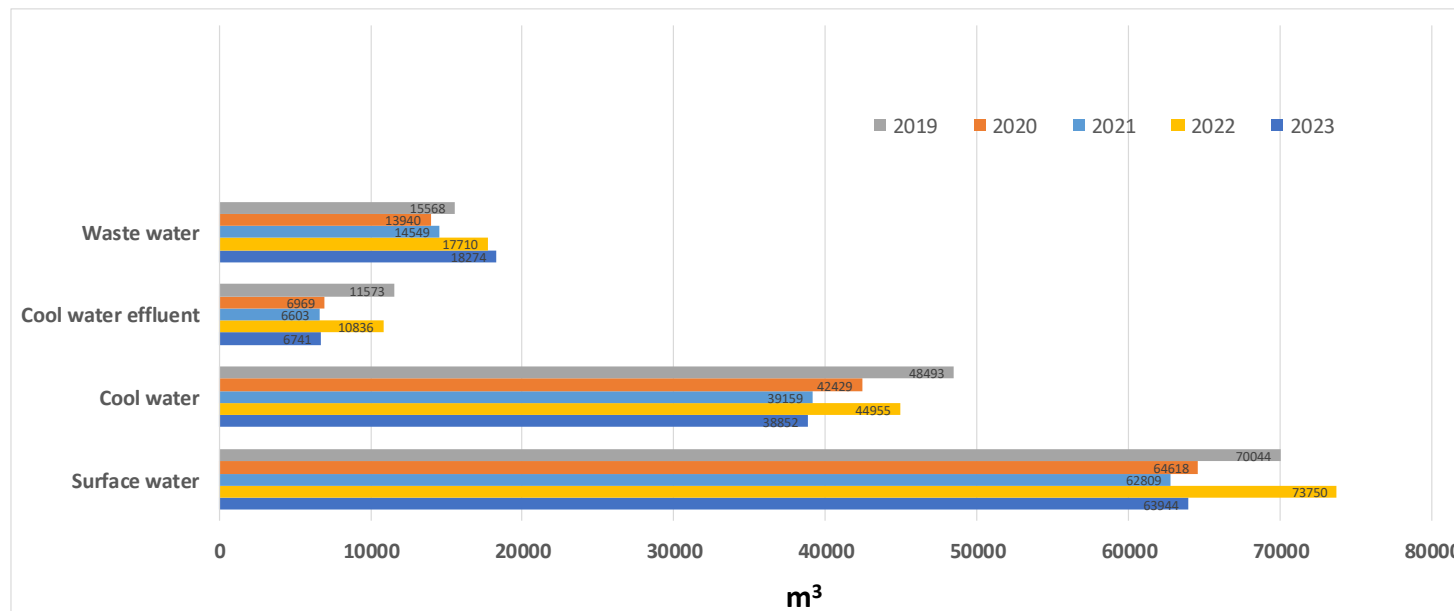


ENVIRONMENT

Water

Surface water is primarily used for cooling and steam generation. The figure below provides an overview of our water consumption since 2019. The main reason for the improvement since 2020 is the installation of a new water treatment system, which enabled us to reduce **cooling water effluent** by more than **40%** in 2020, 2021, and 2023 compared to 2019. The substantial rise in surface water usage and cool water effluent can be traced back to the unusually dry summer of 2022. Because of the poor quality of the water, there was a reduced ability to thicken the recirculating cooling water. Consequently, it became necessary to discharge more water to prevent the accumulation of excessively high salt concentrations, which could lead to scaling and corrosion issues.

Contaminants in **waste water** are removed by activated coal before being released to the public sewer system. Waste water is continuously monitored (TOC, pH, N1, flow) and finally treated through a municipal waste water treatment plant (RWZI-Geel), which ultimately discharges into the Grote Nete. An environmental and nature impact assessment was conducted to evaluate impact on SBZ-H and VEN Areas (SBZ-H BE2100040 & VEN 343). The impact of Transfurans Chemicals BV on water quality in protected areas is negligible. No significant or irreversible damage is expected due to the company's activities.



Air

Measures are in place to prevent emissions of pollutants and air quality is regularly monitored.

Waste gases from process installations are released into the atmosphere through vent pipes, with emissions measured in compliance with VlareM regulations. To minimize emissions from internal processes, several measures are implemented, including the use of vapor return lines, activated carbon filters, scrubber installations.

Regular inspection rounds are conducted by operators to quickly identify and address fugitive emissions. Additionally, TFC commissioned The Sniffers to conduct a study on fugitive emissions, which concluded that such emissions at the site are very low (< 0,01%). Necessary remedial measures identified during the study are currently being implemented to further reduce the VOC emissions with 30%.

Impact Evaluation of VOCs on Air Quality and Human Health

As part of the renewal of TFC's environmental permit, TFC commissioned Sertius NV to conduct an impact evaluation of air emissions of the main volatile organic compounds (VOCs) emitted by the facility. Based on emission data provided by TFC, dispersion calculations were used to determine the company's contribution to VOC concentrations in the surrounding area. Health-based advisory values were also selected for the relevant VOCs.

The evaluation found that the company's contributions to VOC levels in the environment are negligible when compared to the health-based advisory values. Therefore, no significant negative effects on human health are expected from the VOC emissions associated with TFC's operations.



Waste management

Hazardous waste generated primarily consists of contaminated water and metal catalyst from TFC's production processes. The metal catalyst is recycled and copper is recovered.

To promote recycling, waste is selectively collected at our site. If possible, these waste flows are internally reused as raw materials in our production process, e.g. distillation residues. Packaging materials such as drums and IBCs are reused internally if the application allows this. Waste that cannot be reused internally is processed by recognized processors. This is preferably used for recycling purposes or reuse (paper, metal waste, packaging waste, copper). If recycling is not possible, the waste is incinerated (with or without energy recovery), e.g. hazardous waste water flows, residual waste. In case the substances are not combustible or recyclable, landfilling is the last choice.

Our goal is to limit waste generation at our site to no more than 0.6% while ensuring that at least 50% of the waste produced is recycled.

The Health, Safety, and Environment (HSE) Manager maintains a **waste register** that lists all waste materials (type of waste, quantity) that need to be removed and follows a systematic process for waste removal and reporting. A comprehensive waste report is generated annually and submitted to OVAM, the Flemish Regional Waste Authority.

Industrial waste is collected by **recognized processors**. This ensures that the waste is handled by professionals who comply with regulations and employ proper waste management practices. When waste is removed, the processor provides a **removal certificate**. It helps track the journey of the waste from our facility to the processing site and ensures compliance with environmental standards.

Regular waste reporting and monitoring provide valuable data for **continuous improvement**.



Green mobility



TFC promotes sustainability and vitality.

As part of this commitment, we offer our employees the opportunity to lease a company bicycle for commuting. In 2023, the number of employees participating in the bike leasing program remained steady at 53.5%.

Together, we cycled a total of 44,685 kilometers, contributing to a healthier lifestyle and a more sustainable environment.

We aim at reducing the emissions of our car fleet. Therefore, we started to replace the cars with combustion engine by electric and plug-in hybrid electric vehicles.

Our car fleet exists of 10 company cars. 5 cars are fully electric, 1 car still has a combustion engine and 4 other cars are hybrid with an electric range between 40-90 km.

Both electric bikes and cars are charged with green electricity coming from our on-site wind turbine.

Preview 2024

◆ Sustainable procurement:

- ⇒ Review TFC's sustainable procurement policy
- ⇒ Supplier assessment with questionnaires (> 75%)
- ⇒ Audit raw material suppliers (**min. 3**)

◆ Energy policy ('Energiebeleidsovereenkomst 2023-2026'):

- ⇒ Energy and climate audit
- ⇒ Energy plan : finalize the energy plan to reduce both energy consumption and greenhouse gas (GHG) emissions

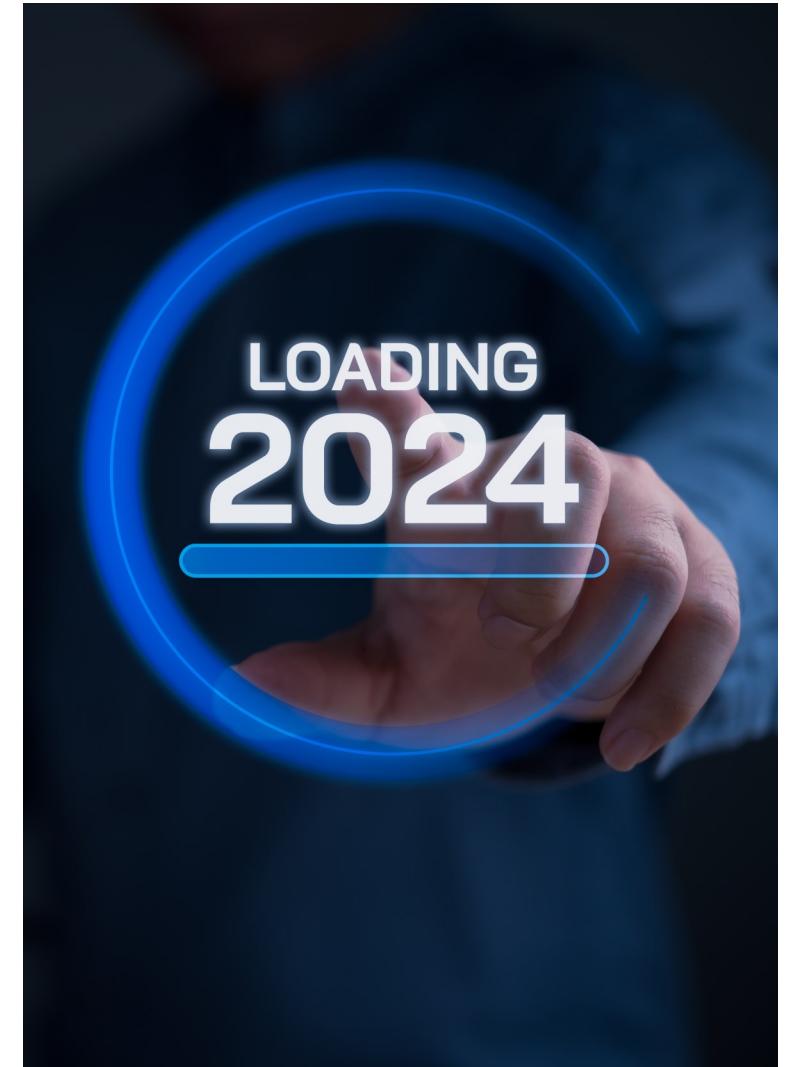
◆ Evaluate International Sustainability and Carbon Certification (ISCC)

◆ Safety first: striving for zero accidents

◆ Network & Information Security Risk Audit (NIS2)

- ⇒ Audit report: Findings on compliance status and areas of improvement.
- ⇒ Action Plan: Steps to address gaps and enhance cybersecurity measures.

◆ Communicate TFC's **sustainability goals and progress**



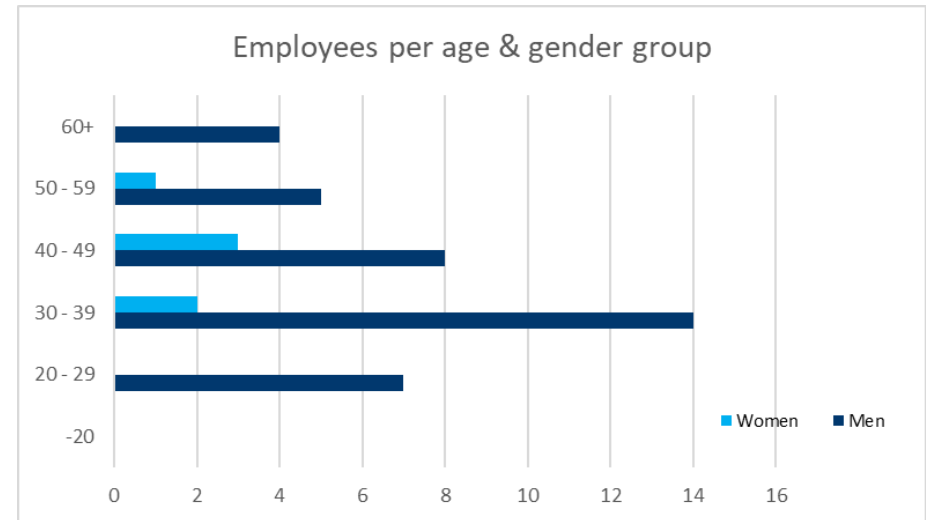
KPI's

People

In 2023, we employed **44 people**, all of whom held permanent contracts (**100%**).

Every year we have working students and trainees at our site having a first work experience.

Young workers	2022	2023
Working students	6	6
Internships	1	2



KPI people

KPI	2021	2022	2023
Employees (#)	42	43	44
Female employees (#)	6	6	6
Female employees (%)	14,3	14,0	13,6
Male employees (#)	36	37	38
Male employees (%)	85,7	86,0	86,4
New hires (#)	2	2	4
Average training hours per employee (#)	5,4	13,3	20,25

Full Time Equivalent	Female	Male
42.3	5.2	37.1

KPI people

KPI	2021	2022	2023
Employees covered by health insurance	100%	100%	100%
Employees covered by outpatient insurance	100%	100%	100%
Employees covered by disability insurance	100%	100%	100%
Employees with a pension plan	100%	100%	100%
Employees covered by a collective bargaining agreement	100%	100%	100%
Employees receiving a thirteenth month's pay	100%	100%	100%
Employees receiving meal vouchers	100%	100%	100%
Employees receiving eco-vouchers	100%	100%	100%
Bicycle allowance available for cyclists	100%	100%	100%



KPI Environmental, Social & Governance

Environment

KPI	2021	2022	2023
Surface Water (m ³)	62.809	73.750	63.944
Drinking Water (m ³)	1.552	1.500	1.599
Water consumption (m ³)	64.361	75.250	65.543
Water discharge (m ³)	21.152	28.546	25.015
Water consumed (m ³ / tons produced)	1.64	1.98	1.82
Water discharge (m ³ /tons produced)	0,54	0,75	0,69
Waste (tons)	179.8	168.7	201
Waste (kg/tons produced)	4.6	4.4	5.6

KPI Environmental, Social & Governance

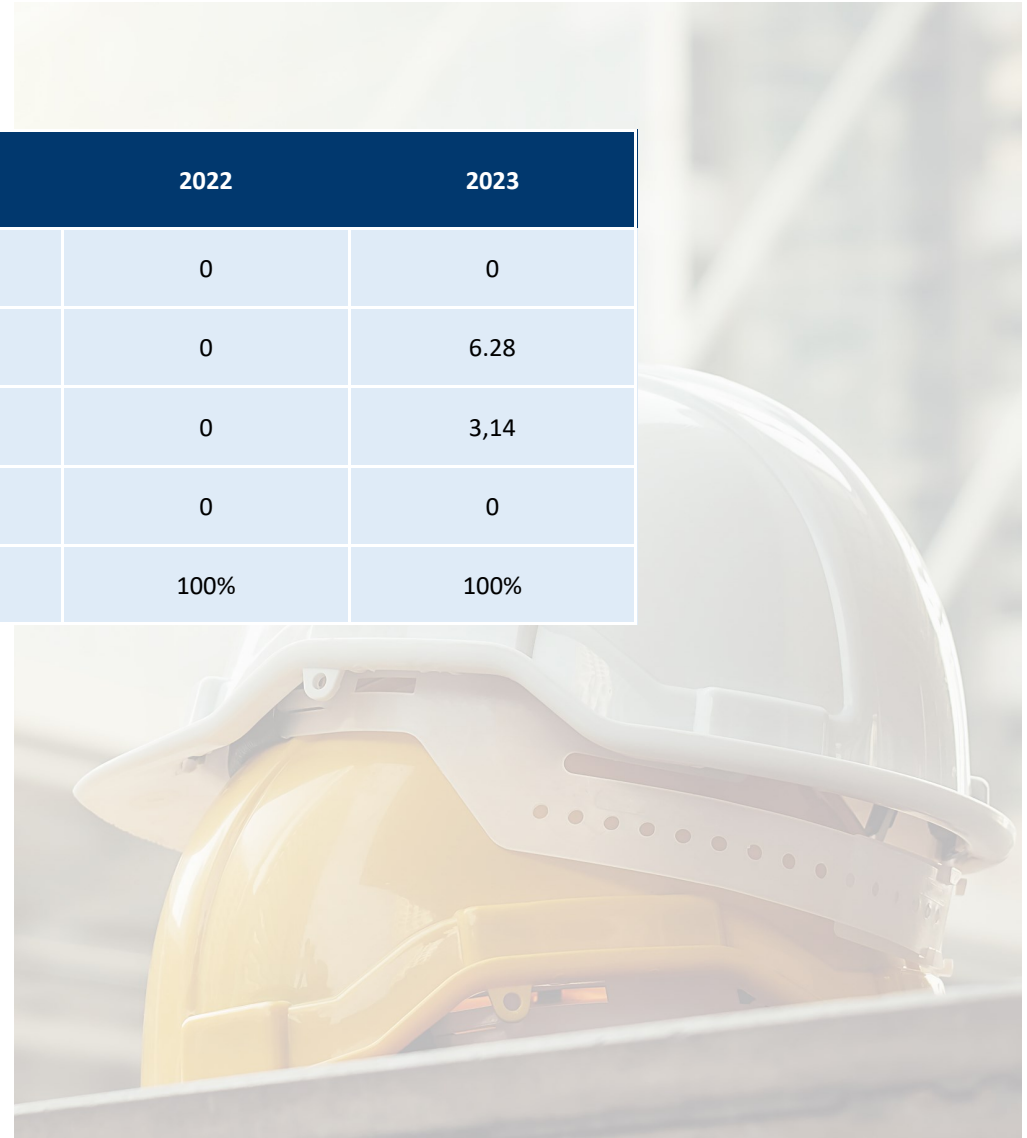
Energy & GHG emissions

KPI	2021	2022	2023
Energy consumption (GJ)	138 251	137 896	127 861
Energy intensity (GJ/t)	3.5	3.6	3.5
Direct (Scope 1) GHG emissions (t CO ₂ -eq)	5.732	5.691	5.313
Indirect (Scope 2) GHG emissions (t CO ₂ -eq)	857	806	545
GHG emissions intensity Scope 1 & 2 (t CO ₂ -eq/t)	0,17	0,17	0,16

KPI Environmental, Social & Governance

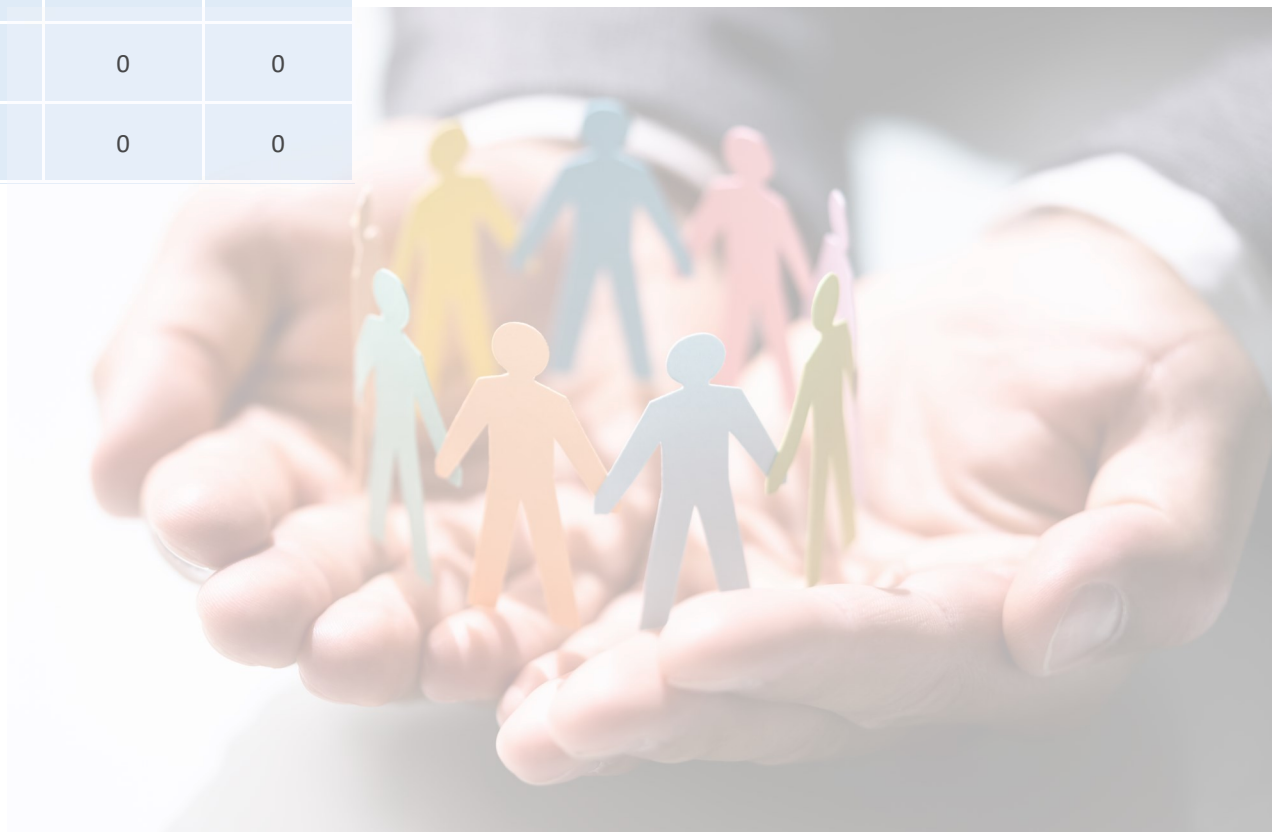
Health & safety

KPI	2021	2022	2023
Fatalities (#)	0	0	0
Recordable Injury Rate (RIR)	0	0	6.28
Lost Time Incident Rate (LTIR)	0	0	3,14
Work-related ill health cases/fatalities reported/identified (#)	0	0	0
Employees and contractors trained on health & safety issues (%)	100%	100%	100%



KPI ethics

KPI	2021	2022	2023
Number of whistleblowing reports (#)	N/A	0	0
Reported incidents of discrimination (#)	0	0	0
Reported incidents of harassments (#)	0	0	0
Reported incidents of corruption (#)	0	0	0
Reported information security incidents (#)	0	0	0



GRI Content Index

Statement of use

TransFurans Chemicals BV has reported the information cited in this GRI content index for the period of January 1 until December 31, 2023 with reference to the GRI Standards.

GRI 1 used

GRI 1: Foundation 2021



GRI STANDARD	DISCLOSURE		PAGE NUMBERS
GRI 2: General disclosures 2021	2-1	Organizational details	4
	2-2	Entities included in the organization's sustainability reporting	49
	2-3	Reporting period, frequency and contact point	49
	2-6	Activities, value chain and other business relationships	4-5, 15
	2-7	Employees	17-18, 36-37
	2-9	Governance structure and composition	19
	2-15	Conflicts of interest	19
	2-19	Remuneration policies (Remuneration & benefits)	17
	2-23	Policy commitments	6, 19, 22
	2-27	Compliance with laws and regulations	15, 20, 22, 23, 31
	2-29	Approach to stakeholder engagement	17, 19

GRI STANDARD	DISCLOSURE		PAGE NUMBERS
GRI 205: Anti-corruption 2016	205-1	Operations assessed for risks related to corruption	19
	205-2	Communication and training about anti-corruption policies and procedures	19
	205-3	Confirmed incidents of corruption and actions taken	19
GRI 206: Anti-competitive behaviour 2016	206-1	Legal actions for anti-competitive behaviour, anti-trust, and monopoly practices	19
GRI 302: Energy 2016	302-1	Energy consumption within the organization	26 - 27, 39
	302-3	Energy intensity?	28, 39
	302-4	Reduction of energy consumption	26 - 27
	302-5	Reductions in energy requirements of products and services	26 - 27

GRI STANDARD	DISCLOSURE		PAGE NUMBERS
GRI 303: Water and effluents 2018	303-1	Interactions with water as a shared resource	30
	303-2	Management of water discharge-related impacts	30
	303-3	Water withdrawal	38
	303-4	Water discharge	38
	303-5	Water consumption	38
GRI 305: Emissions 2016	305-1	Direct (Scope 1) GHG emissions	28
	305-2	Energy indirect (Scope 2) GHG emissions	28
	305-4	GHG emissions intensity	28
	305-5	Reduction of GHG emissions	26, 28
	305-6	Emissions of ozone-depleting substances (ODS)	No ODS to be reported
	305-7	Nitrogen oxides (NOx), sulphur oxides (SOx), and other significant air emissions	31

GRI STANDARD	DISCLOSURE		PAGE NUMBERS
GRI 306: Waste 2020	306-1	Waste generation and significant waste-related impacts	32
	306-2	Management of significant waste-related impacts	32
	306-3	Waste generated	38
	306-4	Waste diverted from disposal	38
GRI 401: Employment 2016	401-1	New employee hires and employee turnover	36
	401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	37
GRI 403: Occupational Health & Safety 2016	403-1	Occupational health and safety management system	23
	403-2	Hazard identification, risk assessment, and incident investigation	22-23
	403-3	Occupational health services	23
	403-4	Worker participation, consultation, and communication on occupational health and safety	23 - 24
	403-5	Worker training on occupational health and safety	23 - 24, 40
	403-6	Promotion of worker health	18, 23
	403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	23

GRI STANDARD	DISCLOSURE		PAGE NUMBERS
GRI 403: Occupational Health & Safety 2016	403-8	Workers covered by an occupational health and safety management system	23
	403-9	Work-related injuries	40
	403-10	Work-related ill health	40
GRI 404: Training and education 2016	404-1	Average hours of training per year per employee	36
	404-2	Programs for upgrading employee skills and transition assistance programs	18
	404-3	Percentage of employees receiving regular performance and career development reviews	18
GRI 405: Diversity and equal opportunity 2016	405-1	Diversity of governance bodies and employees	17, 36
GRI 406: Non-discrimination 2016	406-1	Incidents of discrimination and corrective actions taken	19, 41
GRI 416: Customer health and safety 2016	416-1	Assessment of the health and safety impacts of product and service categories	22

GRI STANDARD	DISCLOSURE		PAGE NUMBERS
GRI 417: Marketing and labelling 2016	417-1	Requirements for product and service information and labelling	22
GRI 418: Customer privacy 2016	418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	41

This report covers the Corporate Sustainability Performance for the period between January 1st 2023 until December 31st 2023.

The CSR is issued annually.

For more information on this report or its contents, you can contact:

Lies Laureys

QA & CSR Supervisor

lies.laureys@transfurans.be

