



# SUSTAINABILITY

Corporate Carbon Footprint, Product Carbon Footprint,  
Energy management, social and economic sustainability



# CORPORATE CARBON FOOTPRINT

Our CO<sub>2</sub> balance: How much we contribute to climate

## Corporate Carbon Footprint - transparency in climate protection

Almost all activities for which our company is responsible have an impact on the climate.

With the creation of a carbon footprint (CO<sub>2</sub> -climate balance) by the renowned external company „denkstatt“, we create a basis with the help of which influences on the climate can be compared quantitatively. Our Corporate Carbon Footprint maps the greenhouse gas emissions of our production sites and (with the addition of Product Carbon Footprints) our products.

Through our statements on the climate impact of our products and our company, we ensure transparency within our defined value chain and confirm the importance of our actions as a processor of raw materials from the circular economy for the environment and nature.



### By the way:

- Where possible, we use renewable energies ourselves. For example, our administration building in Salzwedel is equipped with a photovoltaic system that converts sunlight into electrical energy with zero emissions.
- KRAIBURG Relastec not only manufactures great products from secondary material, but also recycles 100% of all accumulated material such as offcuts, start-up waste or older unsold product lines themselves in order to feed it back into the production process
- Our products are 100% recyclable again at the end of their life cycle.

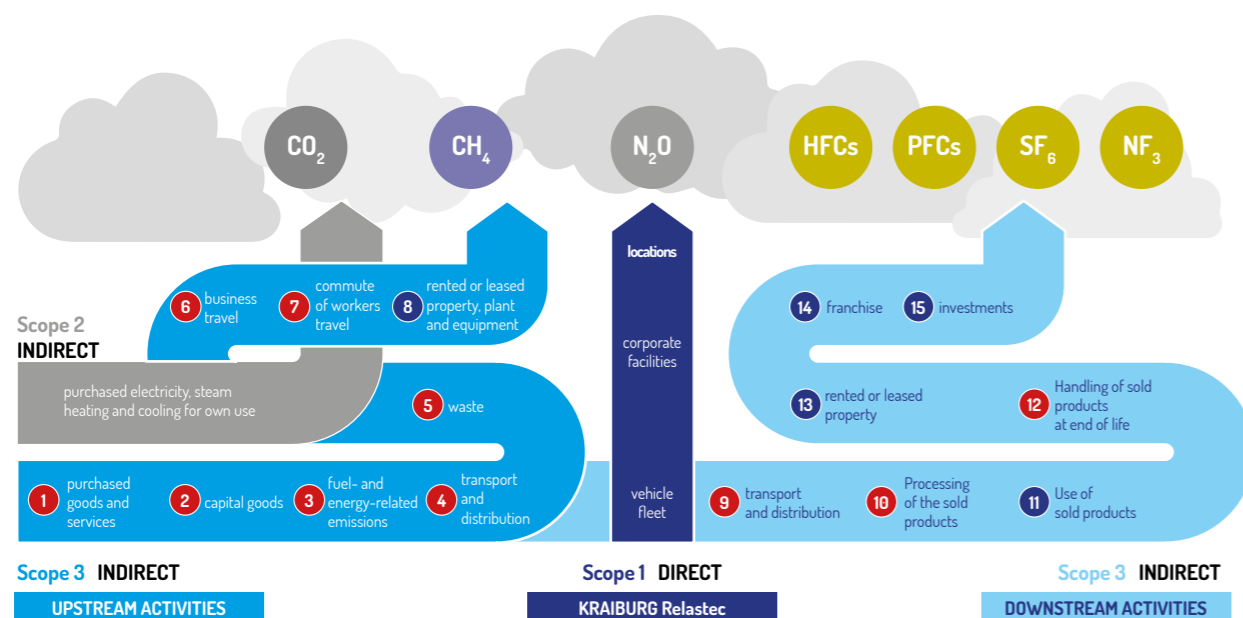
## Definition

The Corporate Carbon Footprint (CCF) records all greenhouse gas emissions generated by the activities of KRAIBURG Relastec within one year.

The calculation is made according to the **Greenhouse Gas Protocol Corporate Standard**.







The Corporate Carbon Footprint considers the direct and indirect greenhouse gas emissions of KRAIBURG Relastec in t CO<sub>2</sub> eq (equivalent) per year.

According to the **Greenhouse Gas Protocol**, KRAIBURG Relastec considered Scope 1 and 2 as well as relevant Scope 3 categories (marked in red):

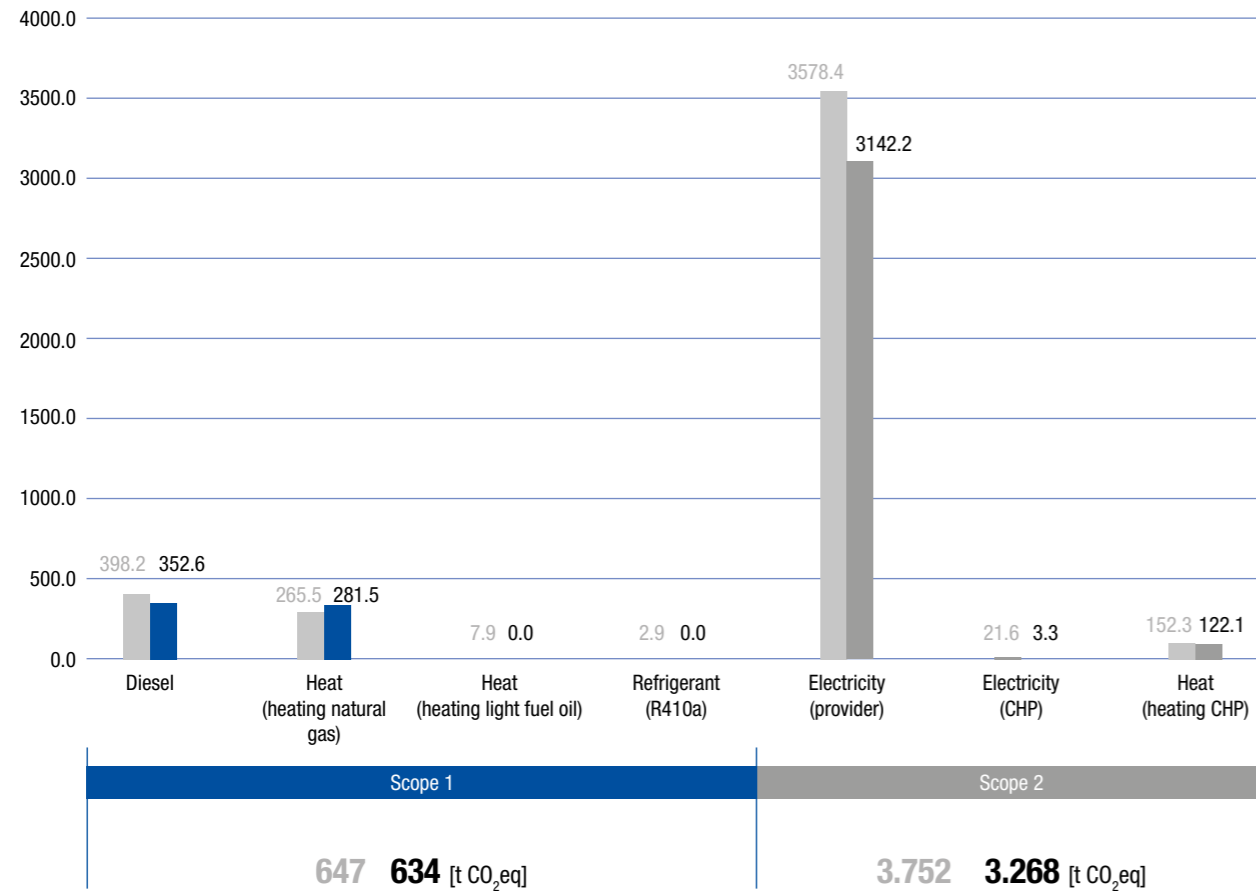


## Data collection & activity data

All climate-relevant activities of the company in 2022 were collected by **KRAIBURG Relastec** and checked for plausibility by **denkstatt**. Furthermore, records and invoice documents were used for the data collection.

Climate-relevant activities of Scope 1 & 2	
	<b>Fuels</b> (primary data: fuel consumption): Company cars diesel, all-terrain forklift diesel and electric forklift in halls <b>Fuels an vehicle fleet:</b> The emission factors for fuel and vehicle fleet were taken from the Federal Environment Agency (UBA 2022).
	<b>Electricity:</b> operation, production, lighting and cooling (primary data: Billing and gas consumption CHP (combined heat and power plant)) <b>Electricity</b> was purchased from Dreewag. In addition, electricity was obtained from an adjacent combined heat and power plant (CHP). The gas for operating the CHP and the gas heating system comes from Stadtwerke Stendal
	<b>Heat:</b> space and process heat (primary data: Statements of gas and light fuel oil consumption and gas consumption of CHP) The CCF calculation model uses emission factors from the German Association of the Automotive Industry (VDA 2022) and IEA 2022 for gas consumption
	<b>Refrigerant:</b> Delimited via loss of refrigerant in the reference year (primary data: maintenance log) No refrigerants were topped up in 2022, therefore this category is omitted from the CCF
	<b>Market-based:</b> Electricity sourced from 9 % renewable and 73 % fossil energy sources (176 % nuclear power). The emissions of the electricity mix were determined using emission factors from the International Energy Agency (IEA 2022)
	<b>Location-based:</b> For the location-based approach, emission factors from the IEA 2022 were used for the region of Germany.

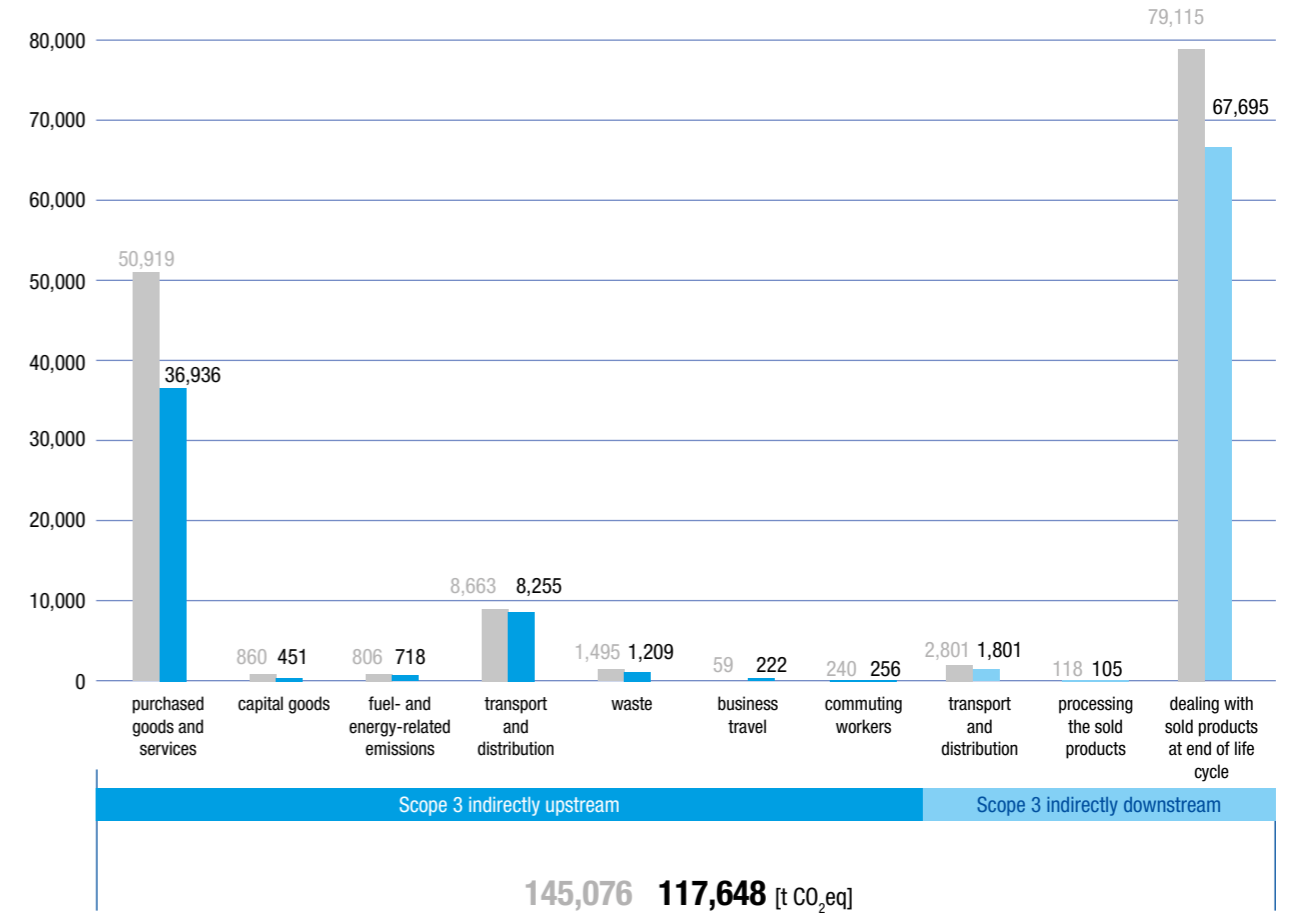
## Scope 1 & 2 emissions in [t CO<sub>2</sub>eq] 2022



2021 ■ 2022 ■

Note: The results shown here are based on extensive and detailed calculations which are not part of this documentation. If you have any further questions on individual points, please do not hesitate to contact us.

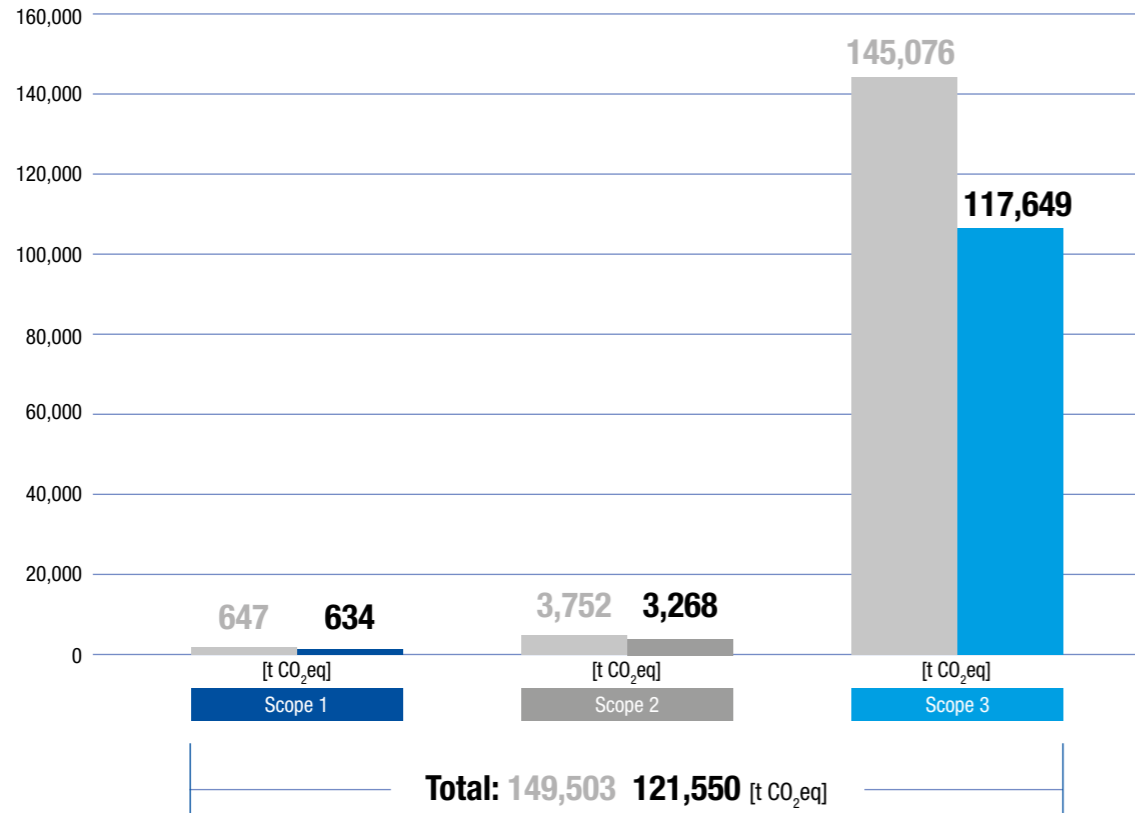
## Scope 3 emissions in [t CO<sub>2</sub>eq] 2022



2021 ■ 2022 ■

Note: The results shown here are based on extensive and detailed calculations which are not part of this documentation. If you have any further questions on individual points, please do not hesitate to contact us.

## Corporate Carbon Footprint Scope 1 - 3 in [t CO<sub>2</sub>eq] 2022

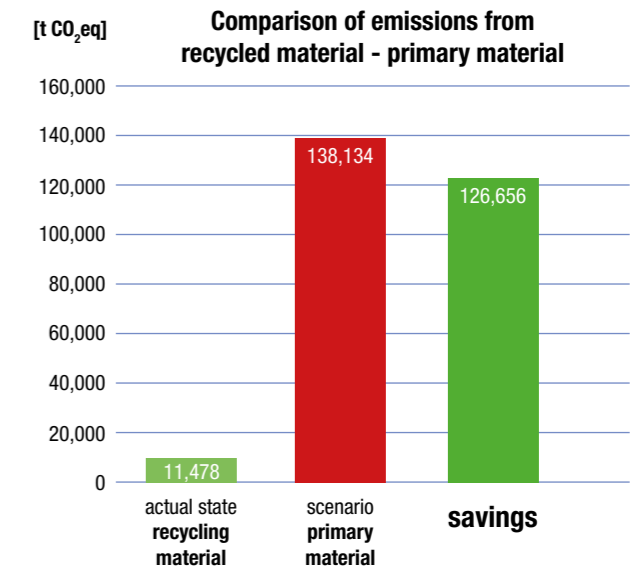


2021 ■ 2022 ■ ■ ■

Note: The results shown here are based on extensive and detailed calculations which are not part of this documentation. If you have any further questions on individual points, please do not hesitate to contact us.

## Saving greenhouse gases through the use of recycled material

With over 96 % of the emissions within Scope 3.1, the consumption of raw materials represents the largest source of emissions. **Because KRAIBURG Relastec uses recycled materials instead of primary raw materials for its products, the following picture:**



The use of recycled material leads to an enormous CO<sub>2</sub> saving of 126,656 [t CO<sub>2</sub>eq], comparable to the annual CO<sub>2</sub> emissions of 16,499 German citizens<sup>1</sup>!

<sup>1</sup>Average 7.7 t CO<sub>2</sub> emissions per citizen (2020)



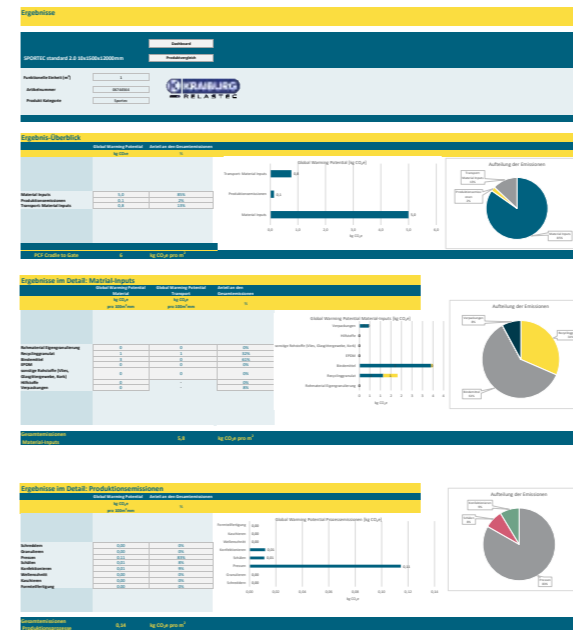
# PRODUCT CARBON FOOTPRINT

How do our products affect the environment?

## Definition, Normen und Ziele

The Product Carbon Footprint (PCF) determines the climate impact of each of our products. In doing so, we consider their life cycle "cradle to gate", which means that we calculate the generation of harmful greenhouse gases from the raw materials or purchased parts of the product to the point at which it leaves our company.

The calculation is carried out using a software tool developed by the company "denkstatt", which is based on the norms **ISO 14067 (Product Carbon Footprint)** and **ISO 14040/44 (Life Cycle Assessment = LCA)**.



The introduction of the Product Carbon Footprint for our products once again demonstrates our commitment to transparency and environmental awareness. It serves both as a benchmark for the development of new products and as a guide for defining our corporate strategies. It also offers the potential to demonstrate improvements. Customers who have to comply with environmental requirements when implementing their projects can see at a glance whether a product fulfils the criteria in each case.



# ENERGY MANAGEMENT

Optimal and efficient use of energy.  
Identify and exploit savings potential.  
Exploit advantages for the environment and the company.

## Energy management is part of our sustainability strategy

Our energy management system makes a significant contribution to environmental protection. Energy is used more efficiently through the systematic identification of potentials and the implementation of optimisation measures.

This is also associated with a reduction in direct and indirect CO emissions.

The resources of our earth are limited. By using recycled materials, we are already making an important contribution to conserving resources here. Our energy management system also helps us to use energy resources efficiently in the long term.

KRAIBURG Relastec's energy management system is certified according to **ISO 50001**.

Energy-relevant topics are taken into account in all processes of the organisation. With our energy policy as a basis and the strategic goals, the energy programme is developed, implemented, regularly evaluated and constantly optimised.

**ISO 50001** also supports the „Sustainable Development Goals“ defined by the UN with regard to resource conservation and climate protection measures.



# SOCIAL & ECONOMIC SUSTAINABILITY

In addition to ecological sustainability, KRAIBURG Relastec also stands for economic and social sustainability.

## Social sustainability

Acting according to our values such as equal opportunities, social responsibility, respectful treatment and transparency are the basis for social sustainability in practice.

In this context, we include not only our dealings with our employees, but also with our partners, suppliers and society in general. Fairness in pay, equal treatment in career advancement, paying attention to the health of our employees and to the safety and ergonomics of their workplaces are just some of the measures we take to realise positive work-life integration and resulting long working relationships.

KRAIBURG Relastec attaches great importance to data protection when dealing with sensitive data.

Business is conducted exclusively transparently and in accordance with ethical principles.

Wherever possible, we support and promote associations and institutions through sponsorship or donations.

## Economic sustainability

As a company of the KRAIBURG Holding, KRAIBURG Relastec does not exclusively pursue the pursuit of profits and profit maximisation. Originating from a family business with a long tradition, it has always been important to us to make contributions to the benefit of society and the environment. Profits generated are always used to a significant extent to make our holistic business model ever more efficient and future-proof. This ensures that our solid company can exist in the long term.





# CERTIFICATIONS

Accredited, independent bodies demonstrate compliance with all our quality, energy and sustainability targets and objectives

## Evidence of our responsible actions



**IQ-Net Certified Management System:** This certificate states that our company has implemented and operates a qualified management system that meets the requirements of ISO 9001:2015.

**ISO 9001:** This certificate confirms the application and further development of an effective quality management system in accordance with the requirements of ISO 9001:2015. The validity of this certificate is maintained by annual surveillance audits and triennial renewal audits.



**ISO 50001:** This certificate confirms the application and further development of an effective energy management system in accordance with the requirements of ISO 50001:2018. The validity of this certificate is maintained through annual surveillance audits and triennial renewal audits.



**TÜV SÜD manufacturing plant certification:** Confirmation that our EU-ROFLEX® fall protection slabs, rubber granulate products and playground equipment are manufactured to a perfect and consistent quality. The quality assurance procedures applied and documented for this purpose were found to be suitable.



**ecovadis CSR Rating:** The EcoVadis rating covers a broad range of non-financial management systems, including environmental, labour and human rights impacts, ethics and sustainable procurement. KRAIBURG Relastec was awarded a bronze medal in the initial EcoVadis 2023 assessment.

## ELT recycling: alternatives that are not alternatives



If we look at the annual volume of tyres alone at the end of their life cycle, more than 583,000 tonnes<sup>1)</sup> are produced in Germany. Across Europe, the figure is as high as 3.4 million tonnes<sup>2)</sup>. This corresponds to around 4.5 million m<sup>3</sup> used tyres with an upward trend.

Although the so-called PAHs (polycyclic aromatic hydrocarbons) are not added during recycling, are firmly bound in the finished products and thus migration is not detectable under realistic conditions, there are efforts on the part of politicians to ban products based on used tyres.

This would cause major environmental problems because, on the one hand, thermal disposal as a fuel in cement production cannot be expanded in terms of volume, on the other hand, the disposal of used tyres in landfills is prohibited and, finally, disposal in waste incineration plants is not possible for capacity reasons. Waste incineration would also generate additional CO<sub>2</sub> emissions.

<sup>1)</sup> zertifizierte-altreifenentsorger.de <sup>2)</sup> Wikipedia

## Advantages of ELT recycling



Life cycle assessment studies confirm that the recycling of used tyres has significant advantages for the environment and climate compared to other disposal methods.



Every tonne of used tyres that is recycled and not incinerated can save approx. 700 kg of CO<sub>2</sub> emissions. This corresponds to an annual saving of 105 million tonnes of CO<sub>2</sub> emissions<sup>3)</sup>.



The recycling of used tyres is based on short economic cycles with strongly locally bound components. This reduces the dependence on imported raw materials and the short transport routes bring additional economic and ecological advantages.



A large part of the value creation takes place in Germany. Material recycling creates hundreds of skilled jobs, which leads to corresponding tax revenues and social security contributions.

<sup>3)</sup> based on 150,000 t of used tyres per year



KRAIBURG Relastec GmbH & Co. KG  
[www.kraiburg-relastec.com](http://www.kraiburg-relastec.com)