



CH Oleochemicals GmbH

CO₂ reduction with every drop.



CO₂ reduction

with every drop.

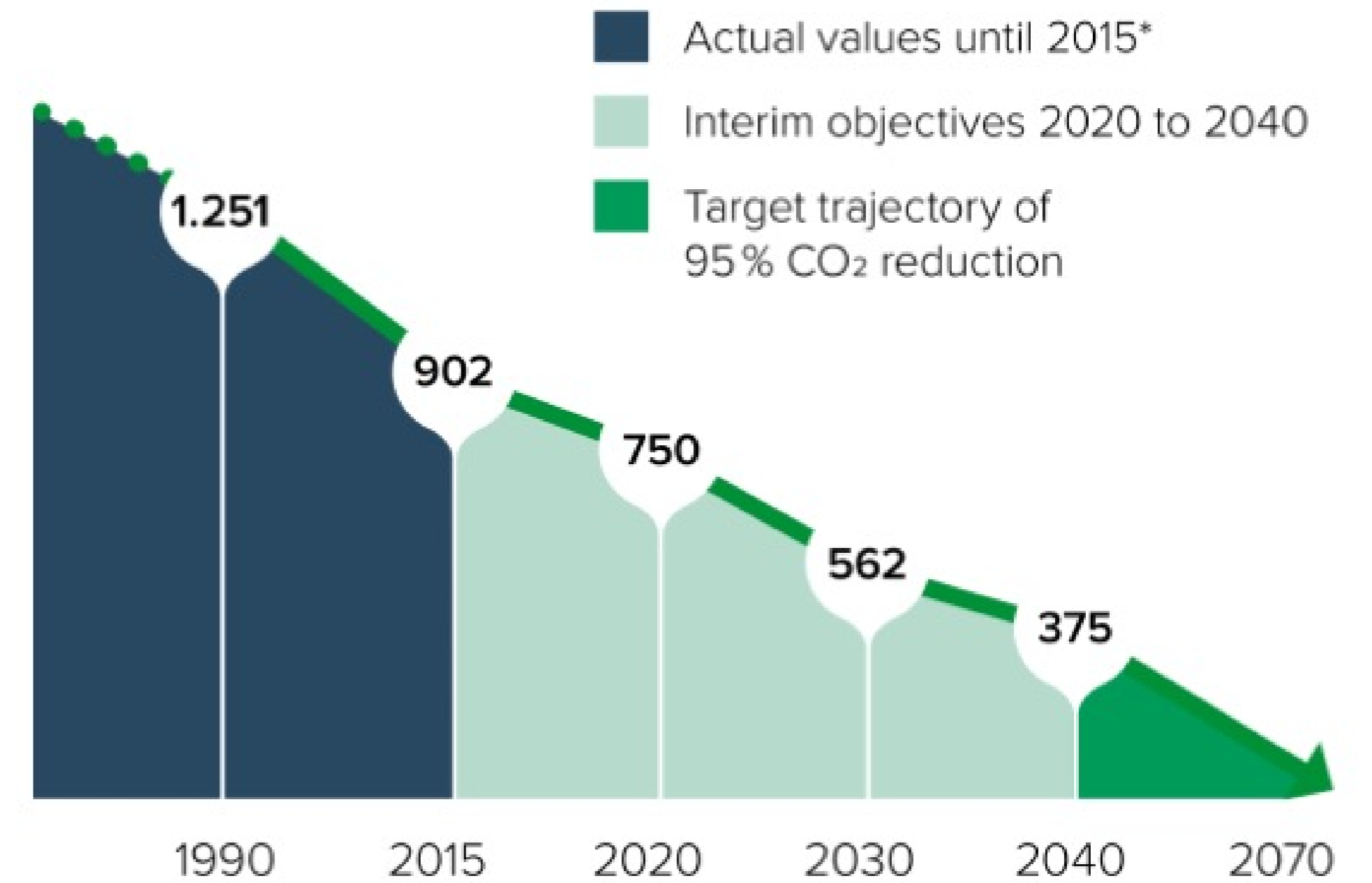
Strategies for CO₂ reduction

CH Oleochemicals GmbH pursues its CO₂ reduction strategy by making sustainable use of residual and waste materials generated within the pure plant-based loop and by creating energy products that deliver potential CO₂ savings of over 90%. Biofuels and by-products play an especially important role in the implementation of this strategic alignment.

Virtually all industrial applications initiate substitution processes that move away from oil-based chemicals to take advantage of oleochemical materials that are entirely plant based and can be grown in a sustainable manner.

The development of greenhouse gas emissions and the Route towards CO₂ neutrality*

Figures in millions of tonnes of CO₂ equivalents
Source: German Environment Agency



Binding targets within the European Union

The so-called “Federal Government Decarbonisation Strategy” entered into force in 2015. The oil industry is now only permitted to use biofuel additives which generate the highest effect in terms of minimising greenhouse gases.

This circumstance has brought about a long-term change in the whole of the biofuels market. Since 2015, there has been an increasing demand for biofuels which are based on residual and waste

materials and exhibit a greenhouse gas reduction rate of at least 90%.

CH Oleochemicals supplies the raw materials used in such biofuels in a CO₂-neutral way and is thus able to offer significant added value across the whole of the delivery chain.

At CH Oleochemicals, we see ourselves as a seller of CO₂ reduction which makes an important ecological contribution.



“ Think globally –
act locally ”

Club of Rome

Residual materials and recycled products that meet the very highest standards.

Our detailed and highly diverse product and process knowledge has enabled us to specialise in returning industrial waste and residues to the value-added chain in the form of raw materials. We treat and refine products in a way that meet the very highest

requirements in terms of further processing. Customers who use our raw materials are also able to generate a further benefit by achieving considerable cuts in the amounts of CO₂ they produce.

The background of the slide is a blurred image of industrial machinery, likely part of a refinery or chemical processing plant, with various pipes, valves, and structural elements visible in shades of blue and grey.

Our high quality residual materials and recycled products

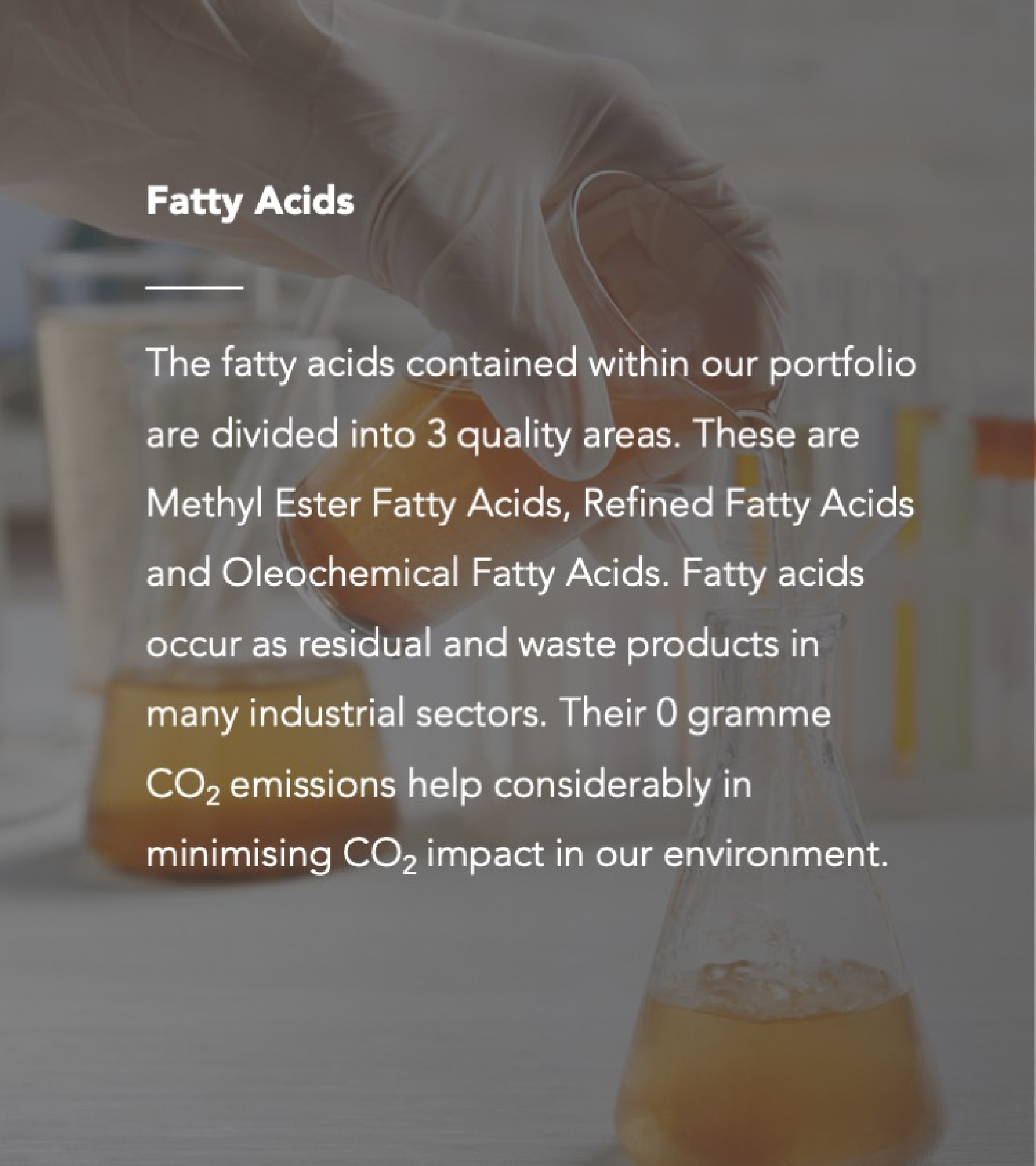
- **Biodiesel – UCOME**
(Used Cooking Oil Methylene)
- **Used Cooking Oil (UCO)**
- **Fatty Acids**
- **CEHARIN**
Pharma Grade Glycerin 99.5%
- **CEHARIN Refined Glycerin 99.5%**
for technical applications
- **Crude Glycerin 80%**
- **Glycerin Phase**

Biodiesel – UCOME

A biodiesel produced using residual and waste materials, referred to in abbreviated form as UCOME (Used Cooking Oil Methyl Ester) and offering potential CO₂ savings of over 90% compared to fossil-based diesel. UCOME has the greatest impact on reducing CO₂ of any product in our portfolio. This biodiesel does not compete with foodstuffs. The basic material has already been used for the production of comestible goods and is subsequently deployed as plant-based oils that has been declared to be a residual and waste material.

Used Cooking Oil (UCO)

Industrial processing of waste edible fats and refined used cooking oil from a wide variety of sources and of differing qualities within our portfolio. Because UCO is a waste or residual material which has been previously used as a foodstuff, it produces 0 grammes of CO₂ emissions. These used cooking oils are primarily distributed via oleochemical applications and to the biodiesel industry. End products manufactured on this basis may achieve CO₂ reduction rates of over 90%.



Fatty Acids

The fatty acids contained within our portfolio are divided into 3 quality areas. These are Methyl Ester Fatty Acids, Refined Fatty Acids and Oleochemical Fatty Acids. Fatty acids occur as residual and waste products in many industrial sectors. Their 0 gramme CO₂ emissions help considerably in minimising CO₂ impact in our environment.

Crude Glycerin 80%

Plant-based raw glycerin is a by-product of biodiesel production and offers a guaranteed glycerin content of 80%. It is an essential raw component for the manufacture of Pharmaglycerin and Refined Glycerin. As a sustainable residual material, it also emits 0 grammes of CO₂.

CEHARIN Pharma Grade Glycerin 99.5%

CEHARIN Pharmaglycerin min. 99.5% is a pure-plant based product. It is used as a raw material in many high-end applications in the cosmetics, pharmaceutical and food industries. CEHARIN Pharmaglycerin min. 99.5% is further deployed in other premium areas in technical industries. Because it represents a pure-plant based replacement for fossil options, it makes an active contribution towards decreasing CO₂.

CEHARIN Refined Glycerin 99.5% for technical applications


CEHARIN Refined Glycerin min. 99.5% is a product that is specially offered for technical applications. It is usually manufactured using pure plant-based residual and waste materials. This is another product which can be substituted for fossil-based chemicals and thus offers high potential CO₂ savings.



**Residual materials
and recycled
products that meet
the very highest
standards.**

Glycerin Phase

Glycerin Phase of plant-based origin is a valuable raw material for technical industrial applications. The maximum glycerin content is 60% depending on the area of use. Areas of use include the manufacture of Refined Glycerin. Glycerin Phase is an important and sustainable raw material for energy extraction because it produces 0 grammes of CO₂ emissions.

A close-up photograph of a person in a light-colored suit jacket and white shirt refueling a car. The person's hands are holding a yellow fuel nozzle, which is inserted into the car's fuel tank. The background is blurred, showing the side of a silver car and a red taillight. The overall lighting is warm and golden, suggesting a bright, sunny day.

**The future is already here.
It's just not obvious everywhere.**

Certified quality

The quality of the products we distribute and sell is the number one priority for CH Oleochemicals GmbH and its customers. We have Ecostep certification in place to ensure this commitment. Our sustainable residual and waste materials are also covered by the REDcert scheme, a system developed by leading associations and organisations in the German agricultural and biofuels sector, and all individual feedstuffs comply with the GMP+ Standard.



Use our strenght to your advantage.

Our USP has its basis in cross-cutting networking that extends across the whole of the bio energy market. The business model adopted by CH Oleochemicals is rooted in a three-pillar strategy. Sustainable pure plant-based products offering a high degree of CO₂ reduction potential are distributed in a fully integrated way within the biodiesel industry and across into the related industrial chemicals sector.

We see our function on the market as processing business in a rapid and flexible way with as little red tape as possible. We also aspire to provide excellent product guidance and high quality logistics services. The primary objective of all our activities is to drive CO₂ reduction by deploying products, waste flows and residual materials which offer high potential savings in this area.



A red semi-truck is driving on a road, pulling a long trailer with green and white stripes. The truck is moving from left to right. The background shows a clear blue sky and some greenery on the side of the road.

**“Everything we do is in
pursuit of a single objective –
CO₂ reduction!”**



Our service

- Consultancy
- Concept
- Logistics
- Sales and distribution

Consultancy

- › Information on general policy and statutory conditions
- › Developments in the Renewable Energy Directive/RED at a German and European level
- › Current market trends
- › Overview of price developments
- › Application-specific product quality guidance

Concept

- › Cross-industry market integration
- › Full networking within the whole of the value-added chain
- › Raw material delivery and product removal
- › Sale of CO₂ reduction





Logistics

- › Integrated processing of transports in the in-and-out business
- › Same-day order and transport availability
- › Hazardous materials (GGVS), waste, kosher and GMP+ transports

Sales and distribution

- › Global procurement and sales activities
- › Security of supply thanks to full integration within the oleochemical industry
- › Sales and distribution via the implementation of USP's
- › An order processing approach that puts customers and suppliers first
- › 35 years of experience in international sales and distribution

A wide-angle photograph of a city waterfront under a clear blue sky. In the foreground, several people are kayaking on the water. A large, tall fountain sprays water into the air on the right side. The background features a row of historic buildings with green roofs and a prominent church with a tall spire. The text "We are there for you." is overlaid in white in the center-right of the image.

We are there for you.



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