



# Wacker Chemie AG







## Company

As a pioneer of modern chemistry, today we are a globally active company with state-of-the-art specialty chemical products. Our portfolio includes more than 3,200 products. Our customers come from virtually every major sector. We develop intelligent solutions and innovative technologies. Customer-oriented and innovative with a long-term vision, we aim to improve people's quality of life around the world.

## WACKERs Race to Zero

WACKER has joined Race to Zero, the UN's carbon neutrality initiative. We pursue specific projects and measures to halve our greenhouse gas emissions by 2030 and to ensure that how we work and make products achieves net-zero by 2045. The Renewable Carbon Initiative will be a key partner on this journey.

## Our SustainaBalance® Strategy:

 <p><b>Value UP</b> By empowering our teams, we enable our customers to provide more sustainable solutions</p> 	 <p><b>Footprint DOWN</b> We create efficient and safe processes, use resources responsibly, avoid waste and minimize our footprint</p> 	 <p><b>Collaboration BEYOND</b> As a contributing member of society, we strive for a sustainable value chain together with all our partners</p> 
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## Our Main Actions with Regards to Circular Economy till 2030:

 <p><b>100 %</b> Products meet sustainability criteria</p>	 <p><b>-50 %</b> Reduction in absolute GHG emissions</p>	 <p><b>100 %</b> Key suppliers meet sustainability standards</p>
	<p><b>-15 %</b> Reduction in specific water withdrawal</p>	<p><b>-25 %</b> Reduction in absolute upstream GHG emissions</p>
	<p><b>-15 %</b> Reduction in specific production waste</p>	 <p>Extend World-class "Verbund" sites and circular economy</p>
	<p><b>-15 %</b> Reduction in specific energy consumption</p>	

For explanation & further targets refer to:

[www.wacker.com/sustainability](http://www.wacker.com/sustainability)

## Foundation

- 1914

## Turnover

- € 8,21 billion

## Employees

- 15,725

## Key materials

- silicone chemistry
- vinylacetate-ethylene-based polymers
- hyperpure silicon
- tailored biotech products

## Key markets

- construction sector
- paint and coating industry
- nonwovens
- automotive industry
- electronics
- solar industry
- pharmaceutical industry
- food applications

## More information

WACKER is present in all relevant markets and key economic regions through a global network of production sites, sales offices and distributors. We are always nearby, wherever you are based. So, it is easy to contact one of our experts directly.



## Enabling the Use of Renewable Raw Materials

The reduction of fossil raw materials is our ultimate goal. By using renewable raw materials, WACKER has taken the first step toward a climate-neutral circular economy.

Our goal is to

- reduce dependence on fossil resources
- improve the carbon footprint of our products, and
- address the needs of our customers.

To enable us to start simply and quickly, we use the mass balancing approach.

## Mass Balance Approach

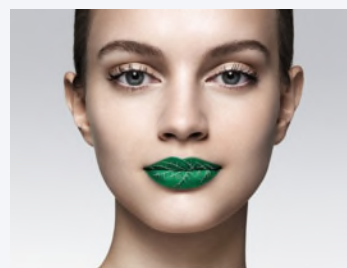
Applying the mass balance approach allows us to co-feed the fossil and renewable raw materials into the production network where both are mixed. The renewable feedstocks are then mathematically assigned to specific products in accordance with the mass balance approach. Thus, we end up with two types of products: products made from renewable feedstocks, our eco-products, and products made from the conventional fossil feedstocks. We started with the substitution of our major raw materials with renewable feedstocks e.g. bio-methanol and are constantly working on increasing the share of renewable raw materials in our value chain as well as qualifying additional renewable raw materials.

## Eco-Products are available for many Applications already

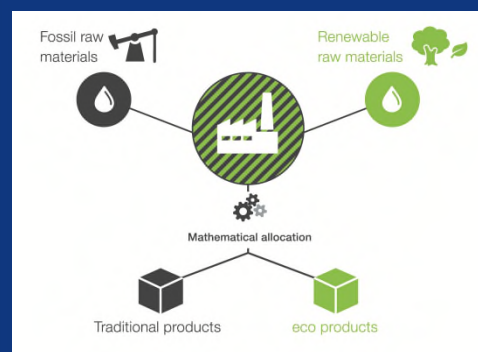
<b>BELSIL® eco</b>	Make-up, styling, haircare or skincare
<b>DEHESIVE® eco</b>	Pulpsil paper and filmic substrates
<b>ELASTOSIL® eco</b>	Ready-to-use silicone sealants
<b>LIOSIL® eco</b>	Detergents and cleaning agents
<b>PULPSIL® eco</b>	Antifoam agents
<b>SILFOAM® eco</b>	Detergents and cleaning agents
<b>SILMIX® eco</b>	High consistency silicone rubber (HCR)
<b>SILRES® eco</b>	Residential and industrial concrete floors
<b>VINNAPAS® eco</b>	Construction, paints & coatings, adhesives, nonwovens and composites
<b>WETSOFT® eco</b>	Functional silicone fluids for textiles
<b>VINNEX® eco</b>	Biopolymers like PLA, PBS and PHA

## Certification

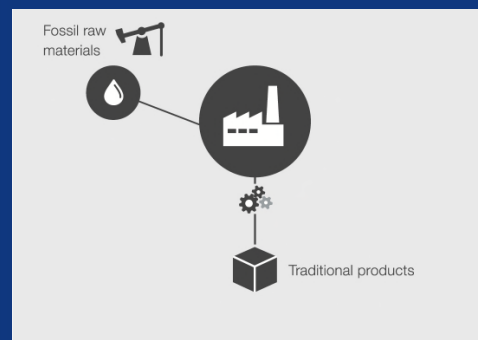
All products based on the mass balance approach - recognizable by the suffix eco - are certified according to the REDcert<sup>2</sup> certification scheme. The manufacturing process as well as the use of certified sustainable raw materials are continuously controlled by an independent third-party auditor. This safeguards traceability of renewable raw materials along the entire WACKER value chain – right up to the “eco”-version of the sales product.



### Mass Balance approach:



### Traditional Approach:



## Enabling the transition to renewable energy

The polysilicon produced by WACKER is 99.9999999 percent pure. It is an enabler for highly efficient solar cells that deliver a shorter energy payback time, a smaller carbon footprint and ongoing cost reductions. Over the lifetime of a solar cell, a kilogram of hyperpure polysilicon from WACKER can save on more than 7,000 kilograms of carbon emissions.

## WACKER Sustainable Solutions

We began assessing our product portfolio according to sustainable criteria in 2018. To do that, we consider the full life cycle of a product or product group and, in addition to unique regional concerns, pay particular attention to the impact of the application. Along with basic criteria, we also describe the sustainability profile. Examples for our sustainable solutions can be found in our WACKER City.



[WACKER City](#)



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