



**WE ACCEPT
RESPONSIBILITY.**

TROGAMID® eCO

**A sustainable high performance
crystal clear polyamide**

November 2020

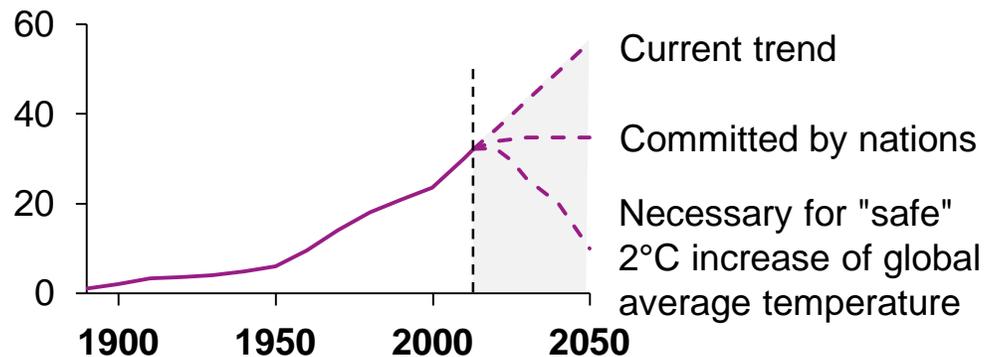
Climate change and other sustainability issues have triggered political action

Global sustainability issues

- Environmental degradation and resource depletion: Human activities over-stretch earth limits by 50%¹
- Biodiversity loss: 58% population decline between 1970 and 2012²

Climate change: Rising CO₂ emissions³ :

Billion t CO₂



Global political agenda



September 2015

UN General Assembly adopted the 2030 Agenda for Sustainable Development



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11

December 2015

Binding universal agreement to reduce carbon emissions at 21st UN Conference of the Parties (COP 21)

¹ Global Footprint Network, ² Living Planet Report 2016, scope: global population of fish, birds, mammals, amphibians and reptiles, ³ IEA World Energy Outlook 2015

The 17 United Nations Sustainable Development Goals (SDGs)

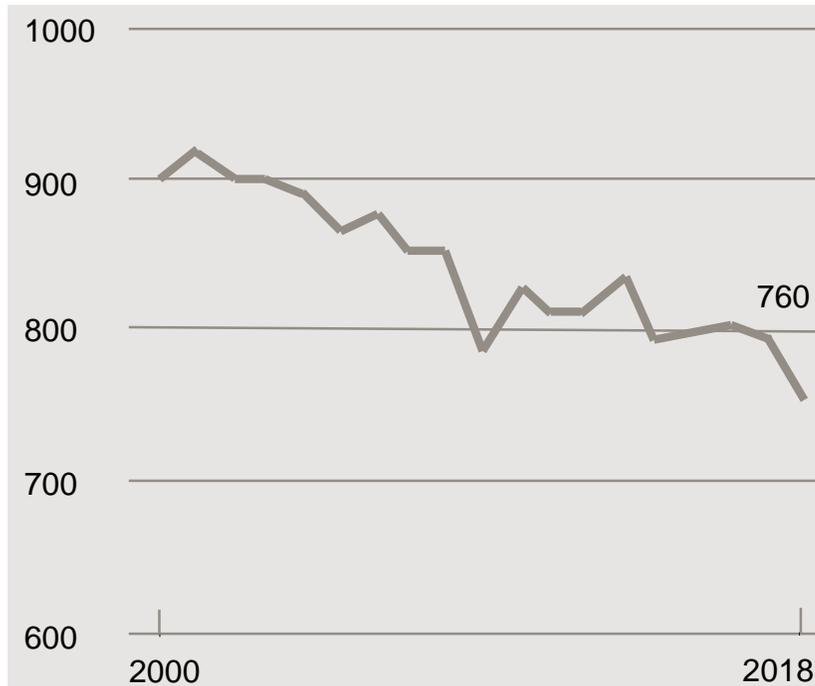
adopted by all United Nations Member States in 2015





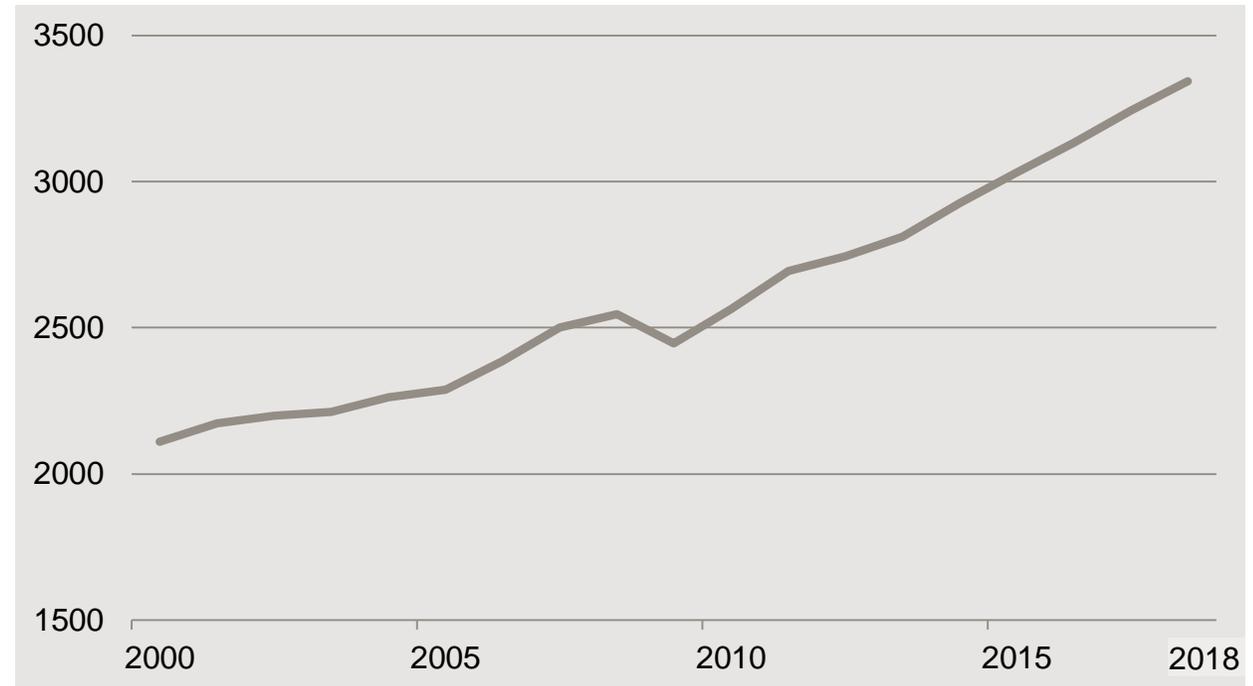
The trend in Germany from 2000 to 2018

CO₂ emissions in Germany in Mio tons



Source: Handelsblatt

GDP in billion Euros



Source: Statistisches Bundesamt

Responsibility at Evonik

2002: Member of the World Business Council for Sustainable Development



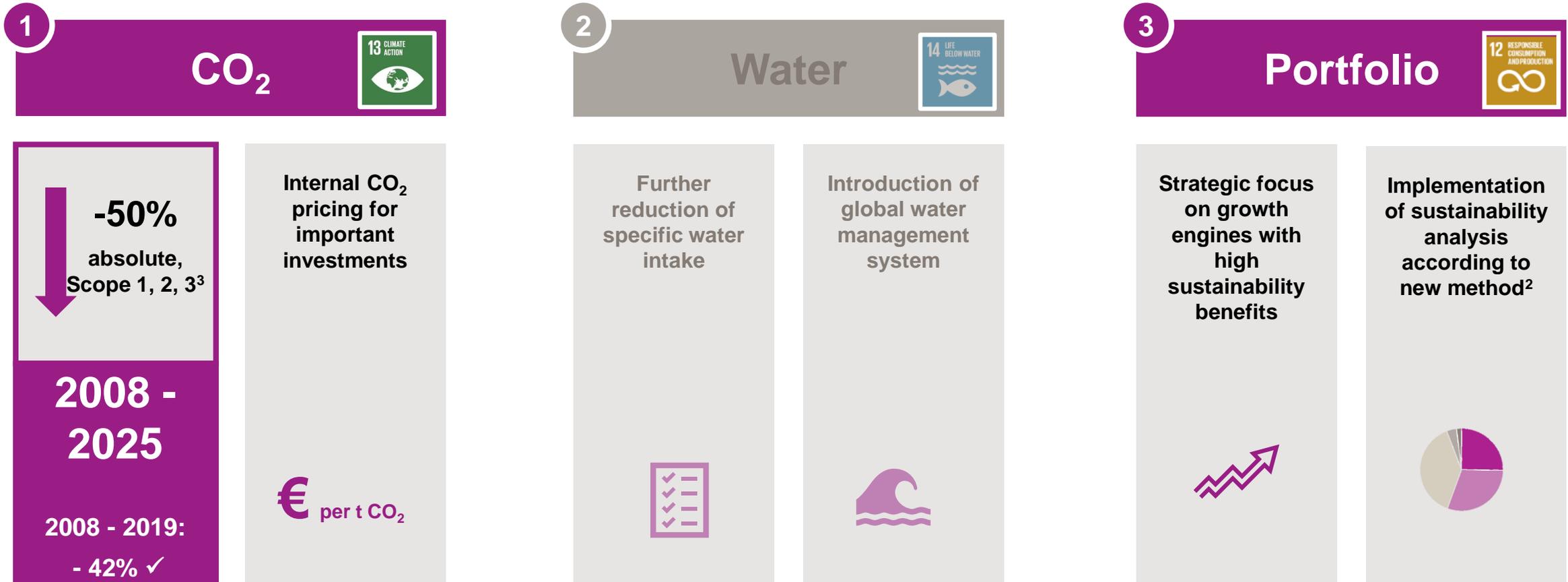
Sustainability strategy of Evonik 2020+



...covers the climate, water, and portfolio management:

- Reducing the ecological footprint of ITS OWN PRODUCTION
- Increasing the hand print resulting from USE OF ITS PRODUCTS and solutions on the market

Evonik sustainability strategy¹

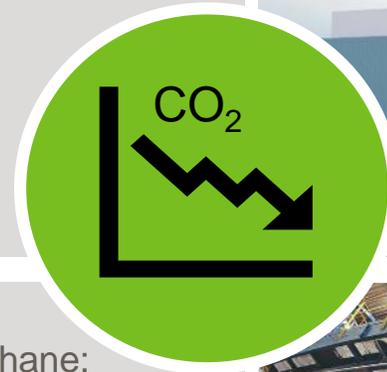


¹ adopted February 2019; ² using WBCSD Portfolio Sustainability Assessment method, business activities are weighted at the level of PARCs; PARC = product-application-region combination; ³ Scope 1: Direct emissions, Scope 2: Purchased energy, Scope 3: Indirect emissions by raw materials etc.

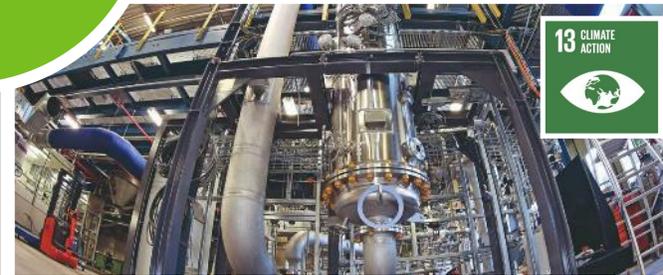
What contributes to this goal? Some examples

- | | |
|---|-----------------------------------|
| 1 | Gas power and steam turbine plant |
| 2 | Biomass to bio-methane |
| 3 | Rheticus project |

1
New gas power and steam turbine plant at Chemical Park in Marl, scheduled to go into service 2022:
-1 Mio tons CO₂/a in Marl
- 20% CO₂ of Evonik global production



2
Biomass to bio-methane: SEPURAN® Green membrane technology for efficient biogas upgrading. Bio-methane can significantly reduce carbon emissions: nearly -2 Mio tons CO₂ equiv/a globally resulting from 300 SEPURAN® Green reference plants



3

Joint project with Siemens on artificial photosynthesis: Generation of high value specialty chemicals from CO₂ and eco-electricity. Test facility has been operating at Evonik's Marl site in late 2019.

High Performance Polymers – We take you to the top!



Use renewable resources
when they can be generated and supplied
sustainably

HP follows two strategies to increase sustainability



Reduce CO₂ emissions
when renewable resources are less sustainable

The way for more sustainability in optics



Use renewable resources
when they can be generated and supplied sustainably

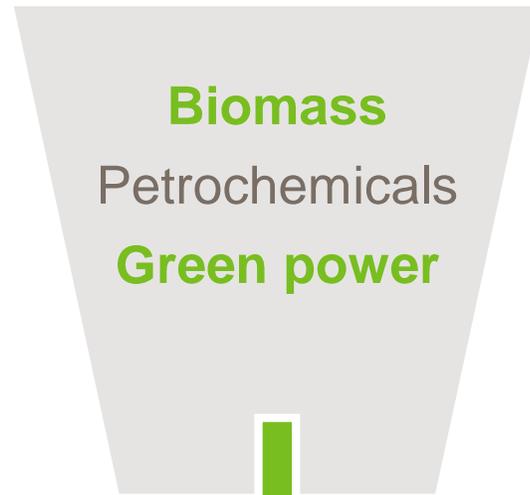
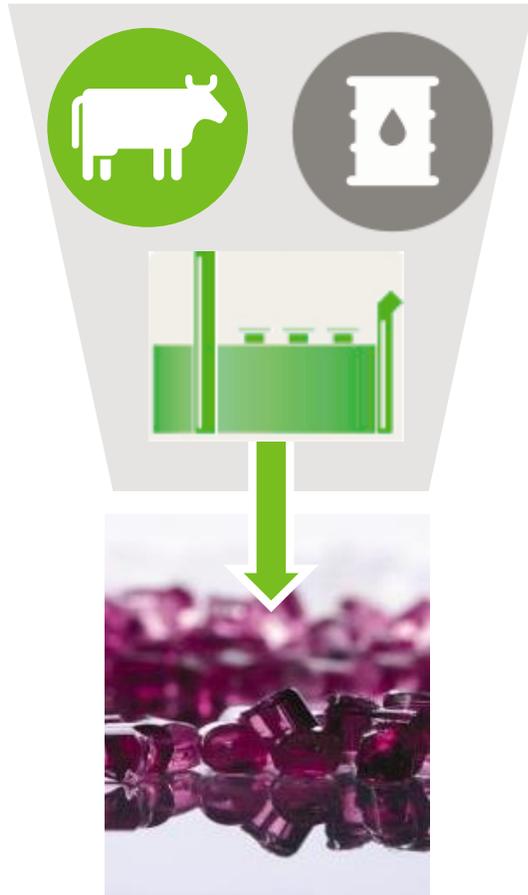
HP follows two strategies to increase sustainability

13 CLIMATE ACTION

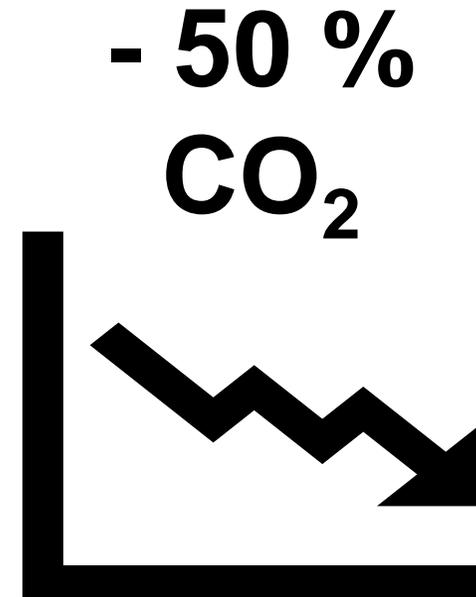


Reduce CO₂ emissions
when renewable resources are less sustainable

TROGAMID® myCX eCO for optics



TROGAMID® eCO
eliminated CO₂



TROGAMID® myCX eCO for optics



| | |
|--|--|
| Durable | Lightweight 11 grams |
| Stress cracking resistance superior | Ultra- strong 14kJ/sqm notched impact |

13 CLIMATE ACTION

40% biobased raw materials

-50% CO₂*

100% renewable energy

*about 50% estimated as kg CO₂equiv./kg product; cradle-to-gate

TÜVRheinland CERTIFIED

Life Cycle Assessment

www.tuv.com ID 000074288

A square QR code located in the bottom right corner of the infographic.

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EVONIK

Leading Beyond Chemistry