

Opportunities and challenges for banks in the transition to a carbon-neutral economy

International Roundtable: New Energy for Czechia
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CEO



GLS Bank at a glance

Reference for social-ecological banking

GLS model:

- First social-ecological universal bank in the world
- Money is for people
- We offer a triple performance
human, forward-looking, economically

GLS Bank – makes sense

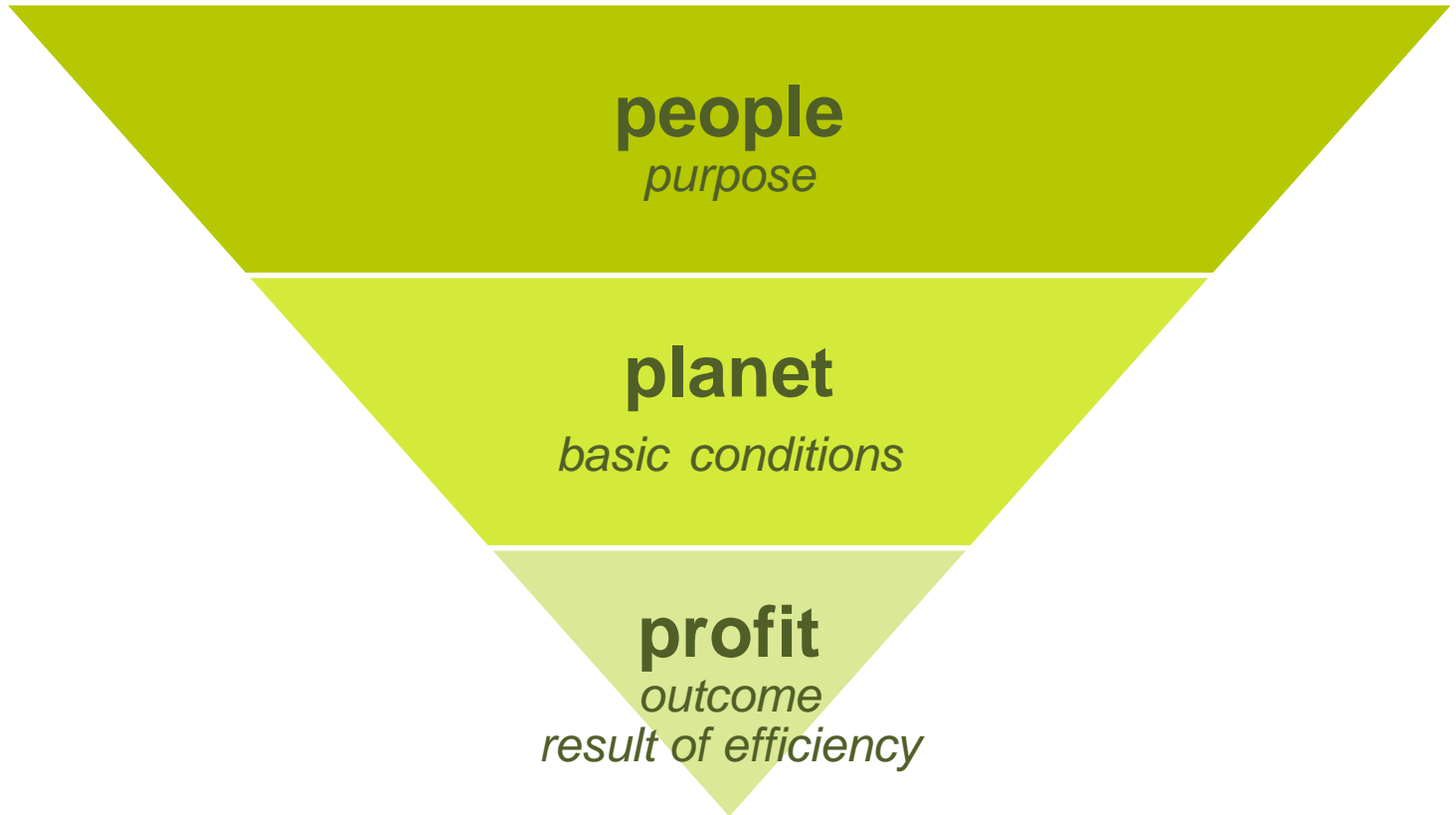


GLS in numbers



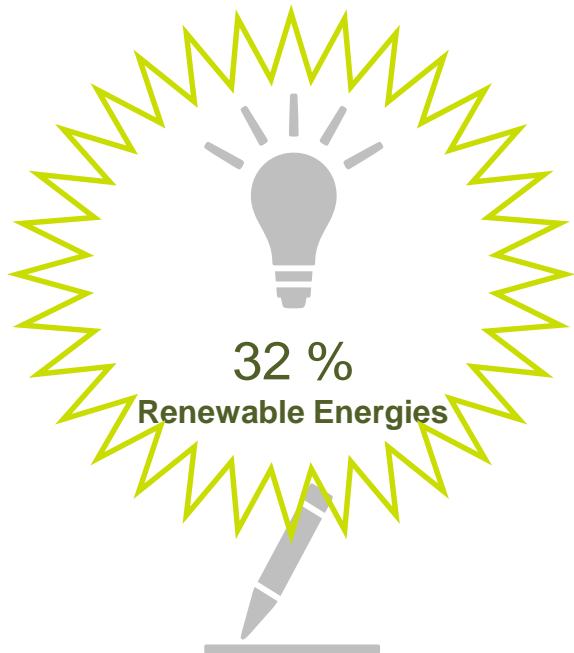
- 600 employees
- € 5.8 billion total assets
- 220,000 customers
- 52,000 members

GLS understanding of sustainability



Sectors

Division of the Loan Portfolio



12 %
Education & Culture



25 %
Living



7 %
Food & Agriculture

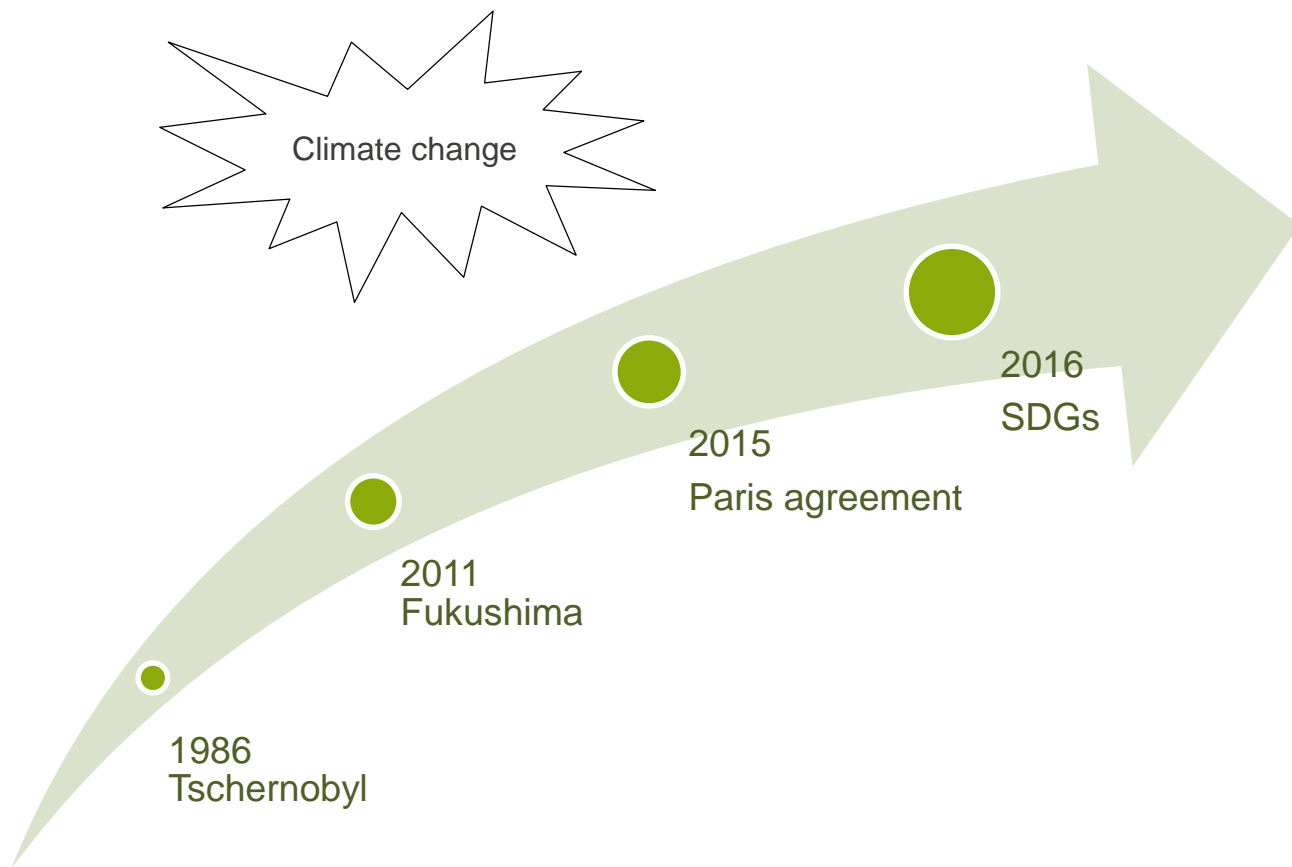


17 %
Health & Social Needs

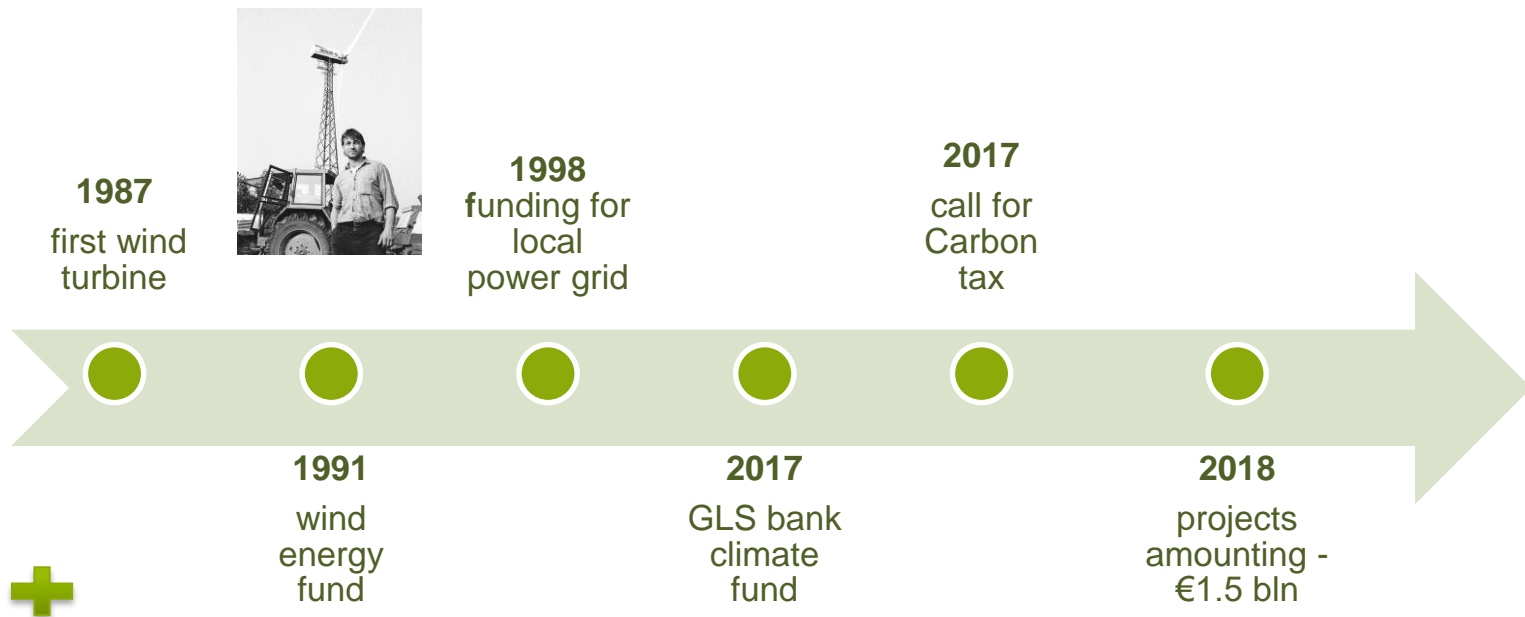


7 %
Sustainable Economy

GLS Bank and the German Energiewende



GLS Bank's long history with renewable energies



Over 20 years of experience :

- **GLS Bank venture capital:** project development and structuring of wind- and solarprojects
- **GLS Energie AG:** Holding for own wind- and solarprojects

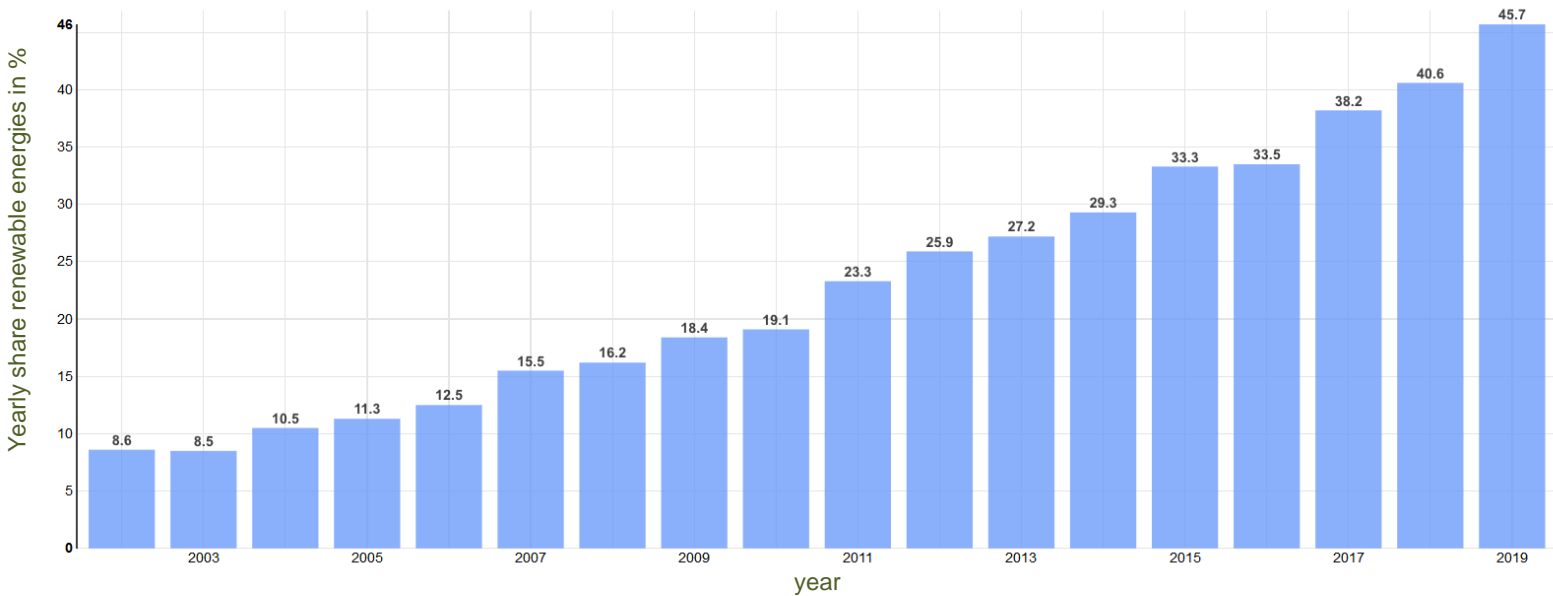
GLS projects



- Cooperative startet 2010 with 10 people
- More than 100 solar panels and wind turbines
- Now 600 members



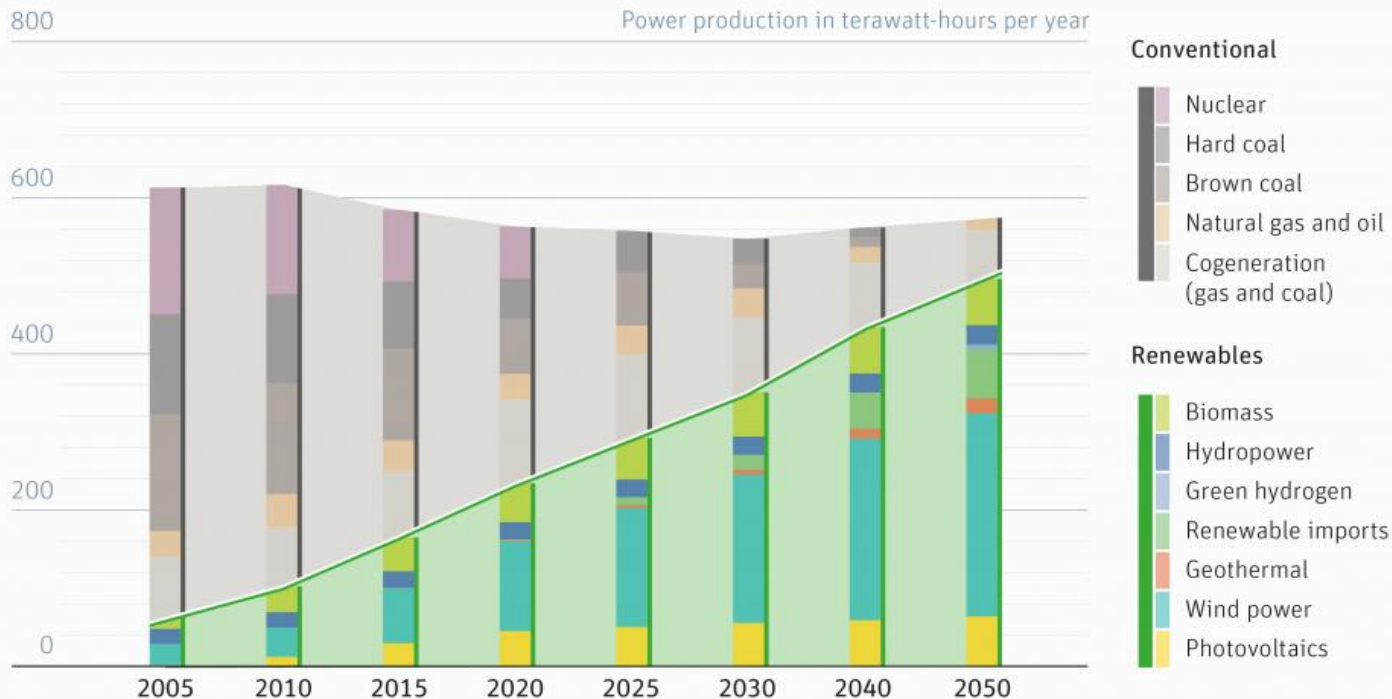
Renewable energies increase in Germany



Germany's plan: switch from coal and nuclear to renewables

Electricity generation in Germany 2005–2050, scenario

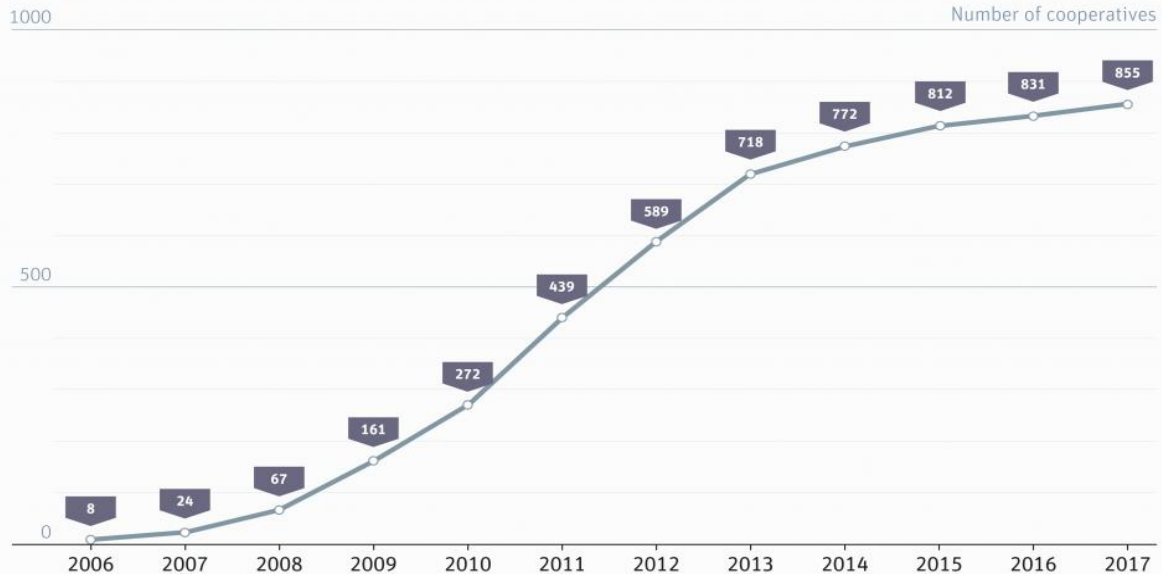
Source: DLR and Fraunhofer IWES



Citizens form cooperatives to drive the energy transition

Number of energy cooperatives in Germany, 2001-2017

Source: German Cooperative and Raiffeisen Confederation (DGRV)



Energy Transition

energytransition.org

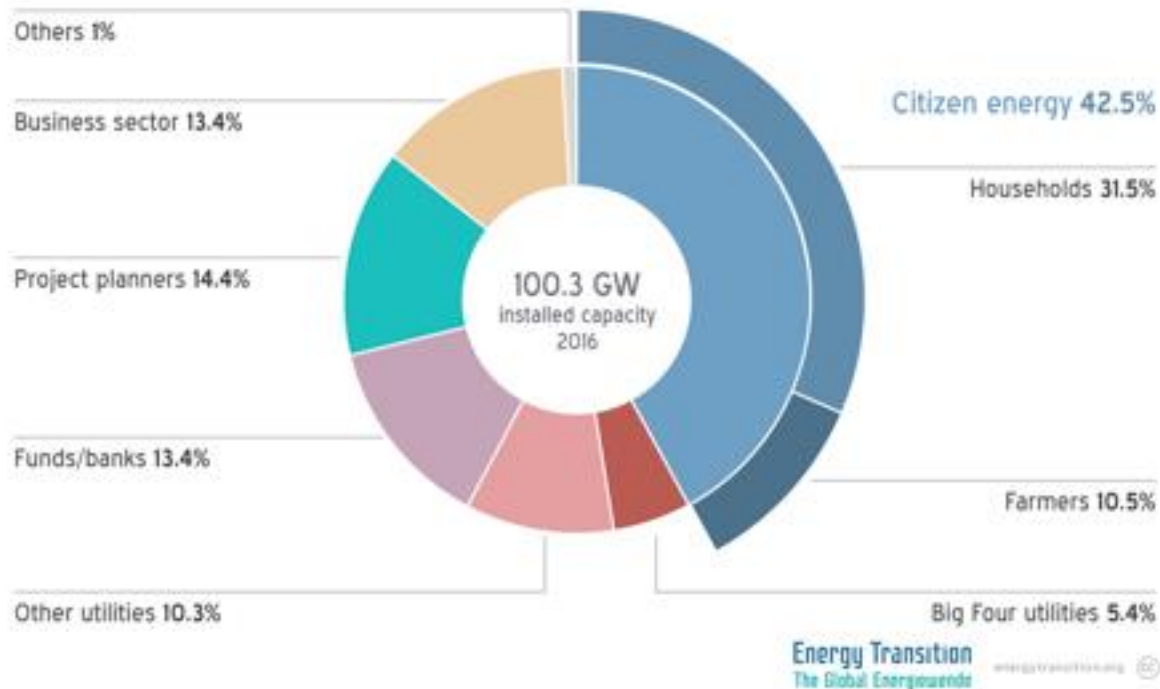


Ownership structure

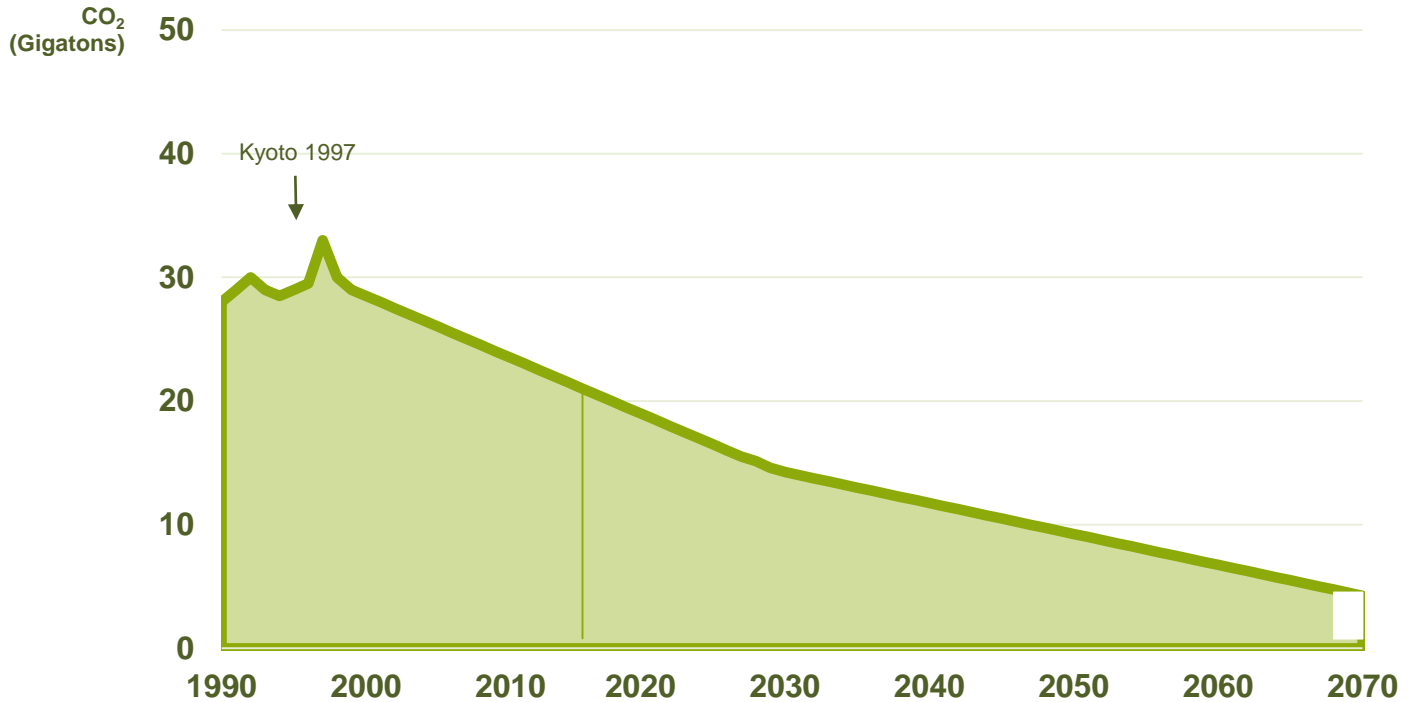
Investments in renewables are spread across many players

Ownership of renewable energy systems in Germany at the end of 2016

Source: trendresearch



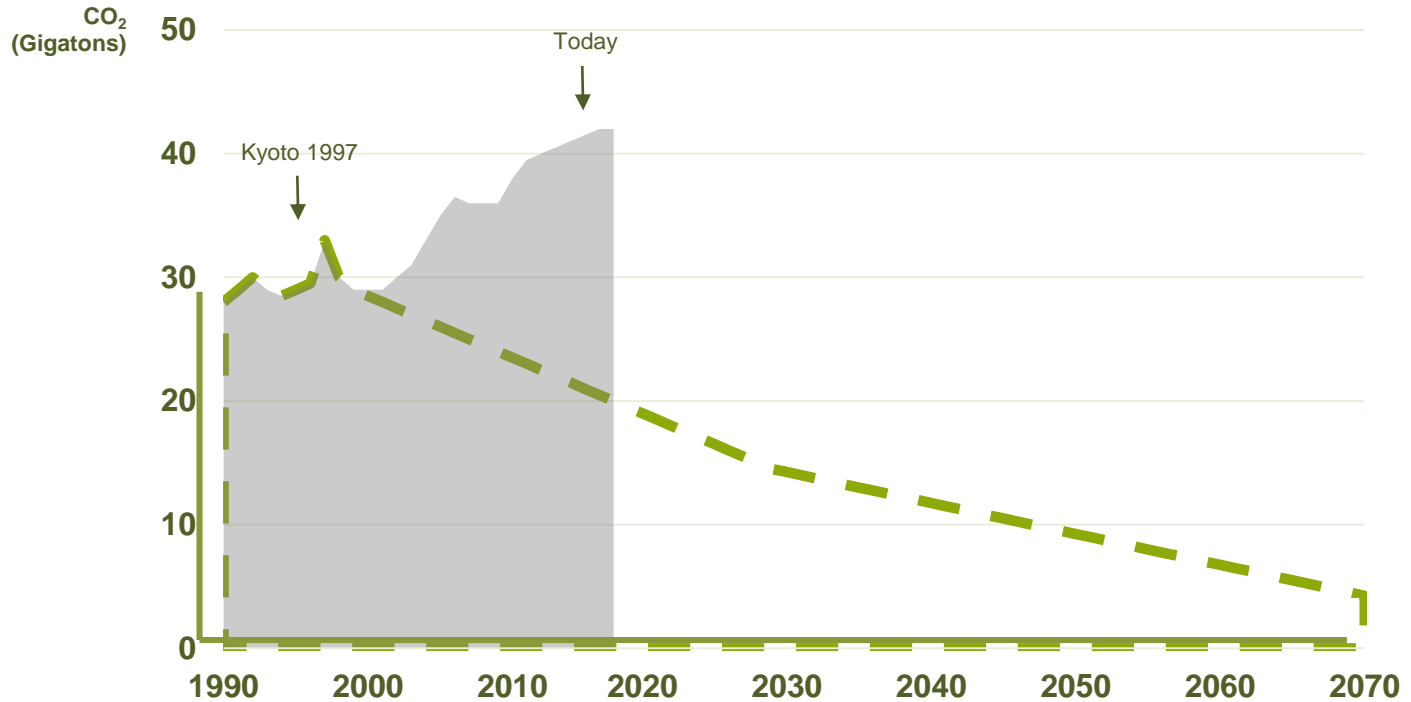
Missed opportunity



Quelle: Global Carbon Project
2018, eigene Berechnung

Possible emission path if
acted right after Kyoto

Status Quo

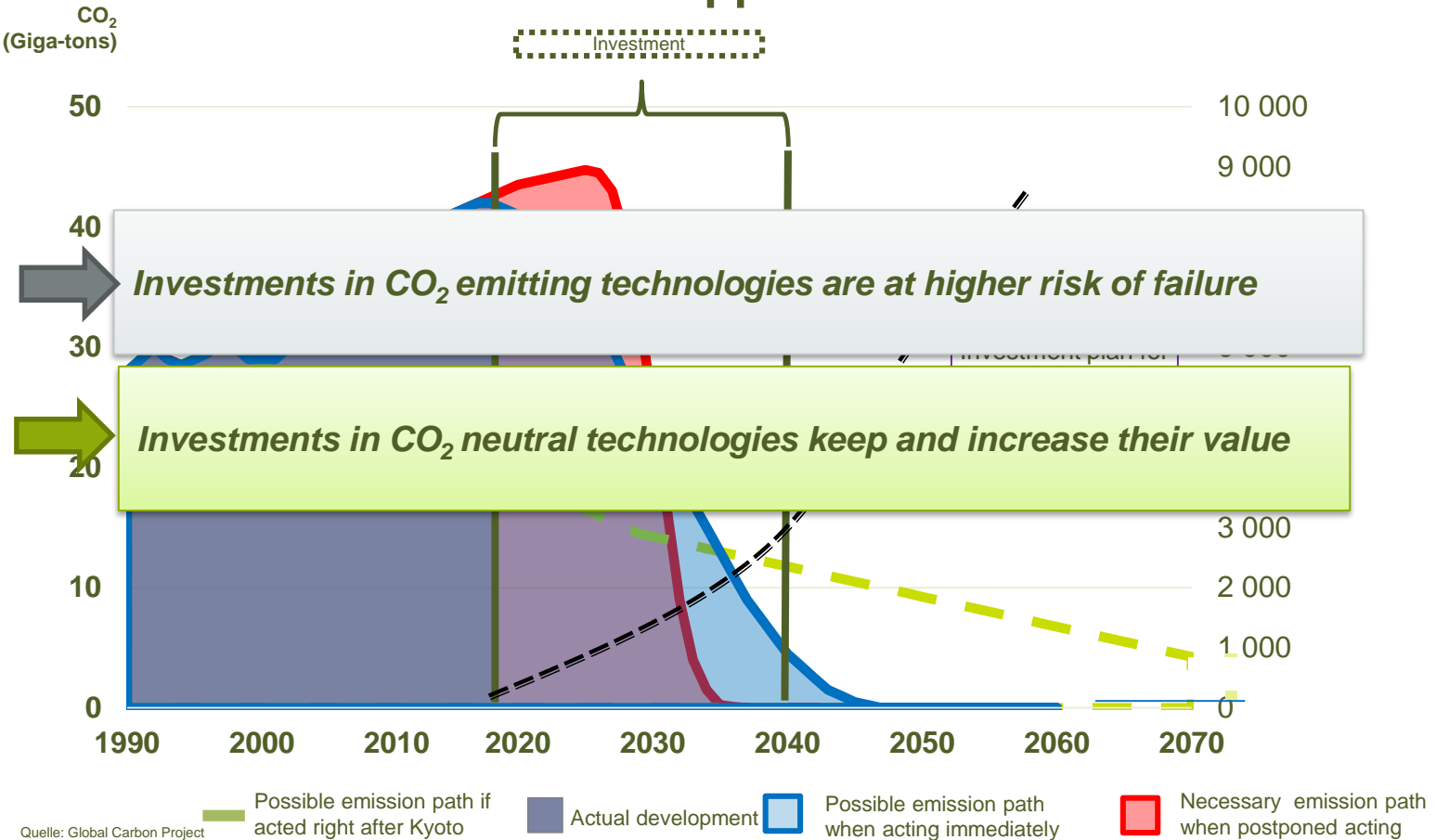


Quelle: Global Carbon Project
2018, eigene Berechnung

Possible emission path if
acted right after Kyoto

Actual development

Investment opportunities



Measure and understand climate risks



Development on Eu level



- **EU action plan:** financing sustainable and inclusive growth
 - catastrophic and unpredictable consequences of climate change and resource depletion → **urgent action** is needed
 - The **financial system** has a key role to play here
- Europe has to close **a yearly investment gap** of almost **EUR 180 billion** to achieve EU climate and energy targets by 2030





uns ist
die Zukunft
nicht egal

STOPP KLIMASCHNITT
I AM NOT A
NUMBER

Ich bin so
wütend, ich
habe sogar ein
Schild

SAVE
THE PLANET

OB REGEN
SONNENSCHNEE
ZU BRÄUNLICHES
SAUREN NIE

ES GIBT
KEINE
ZUKUNFT

KEINE
KÖRPERLICHE
ARBEIT