



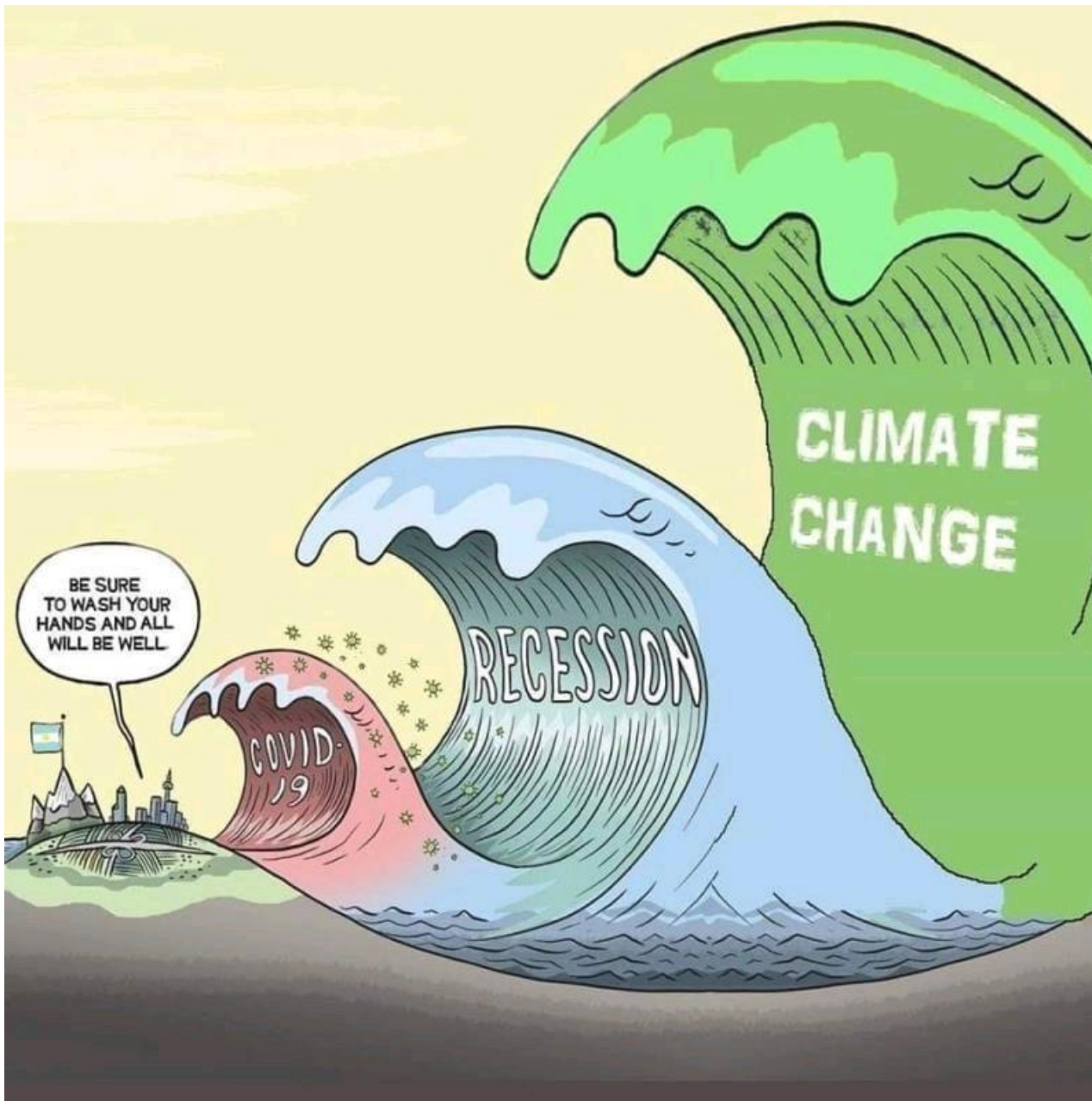
Keynote speech Prof. Dr. Claudia Kemfert

Green growth as a way out of the crisis? Economic perspectives of decarbonisation post-Covid-19

Prof. Dr. Claudia Kemfert
November 2020



Photo: Rainer Zensen

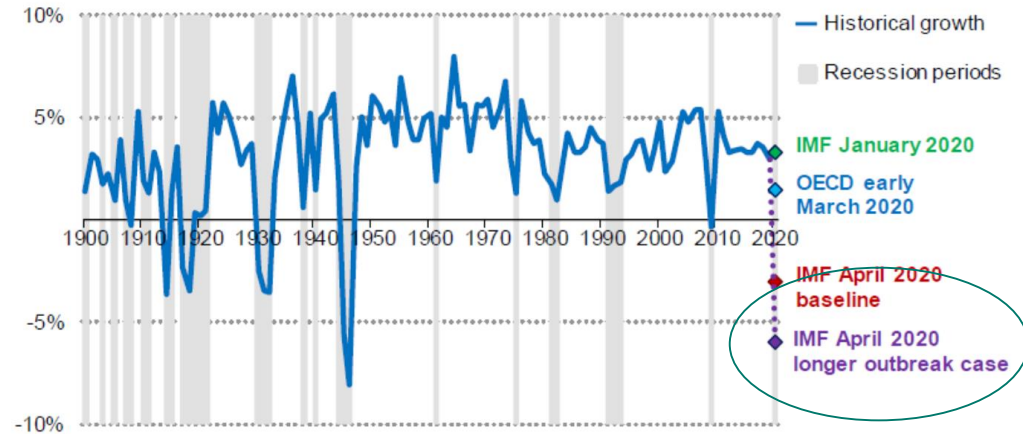


Quelle: The State Energy and
Environmental Impact Center NYU
School of Law

Economy in free fall: GDP and Oil Price

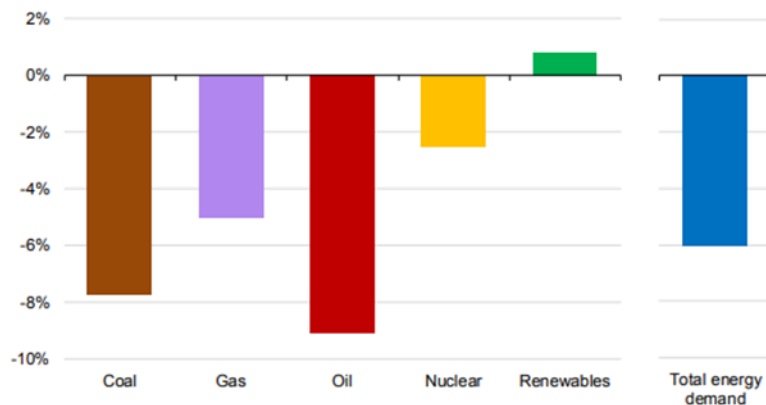


Global annual change in real gross domestic product (GDP), 1900-2020

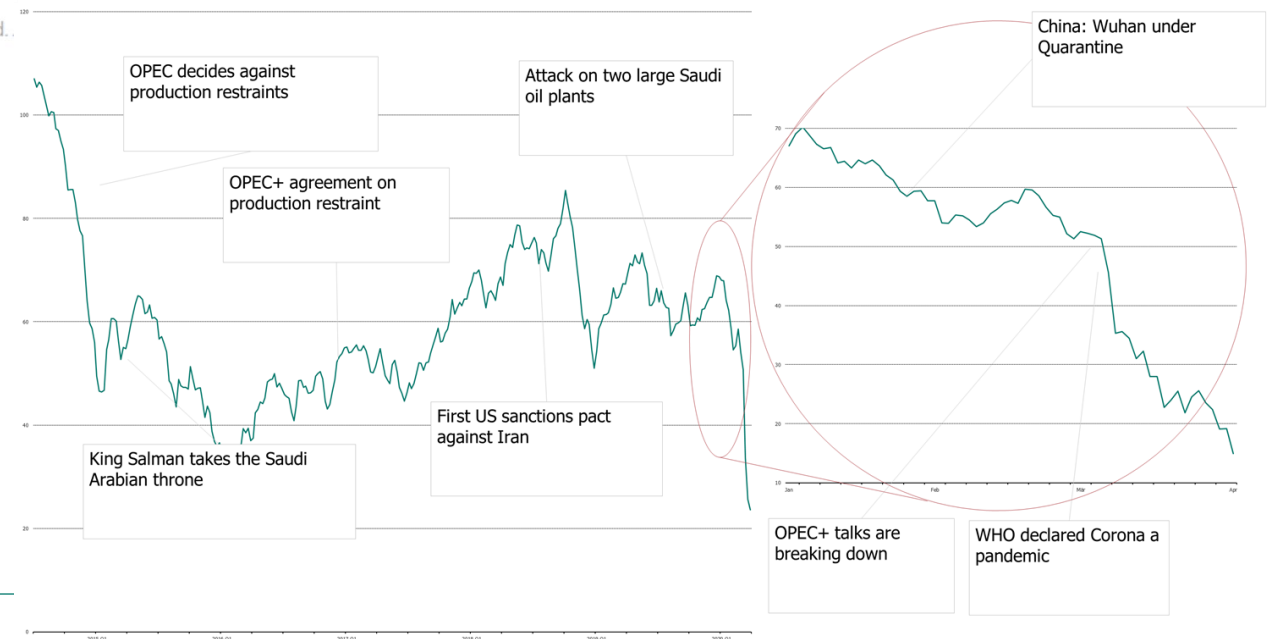


Sources: IEA based on IMF World Economic Outlook (January and April 2020), OECD Interim Economic Outlook Forecasts (March 2020) and Maddison Project Database (2018).

Projected change in primary energy demand by fuel in 2020 relative to 2019



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We need

A healthy Environment

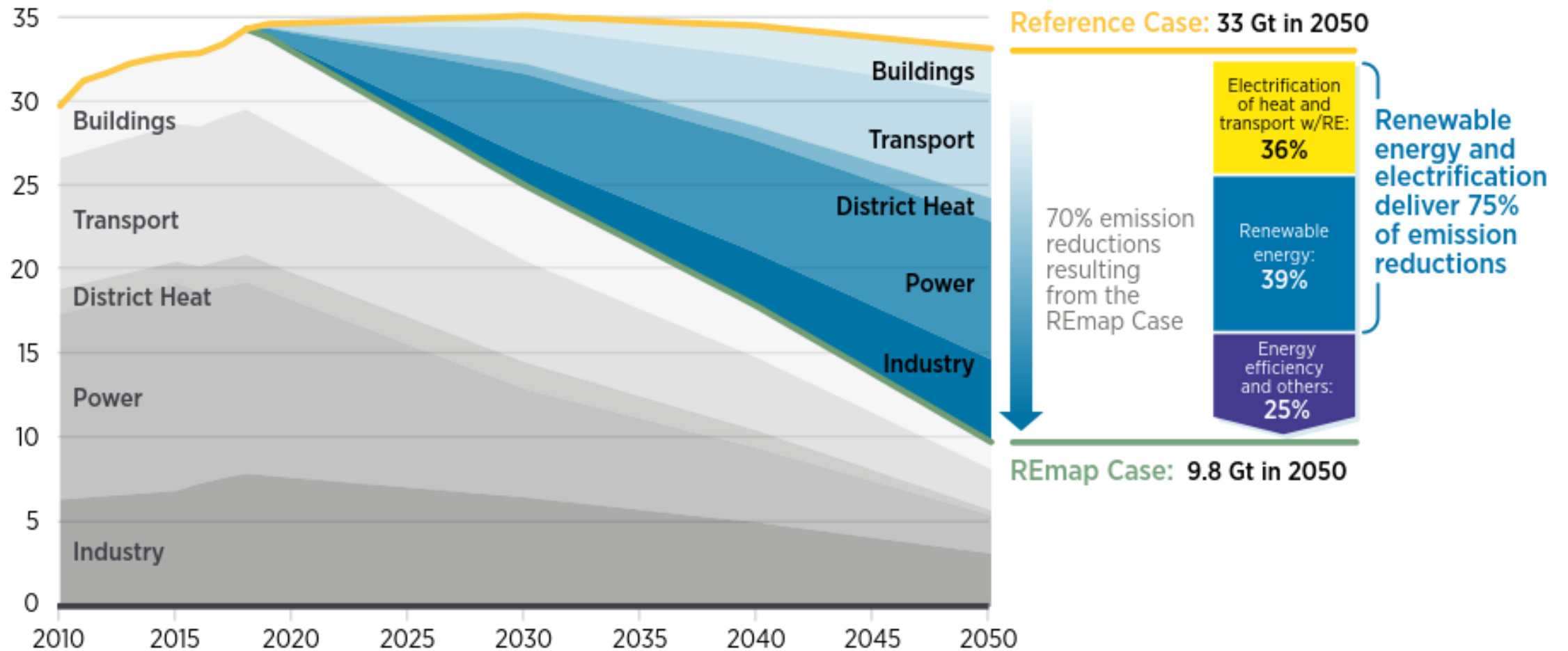
A healthy Climate

A healthy Economy

A healthy Society



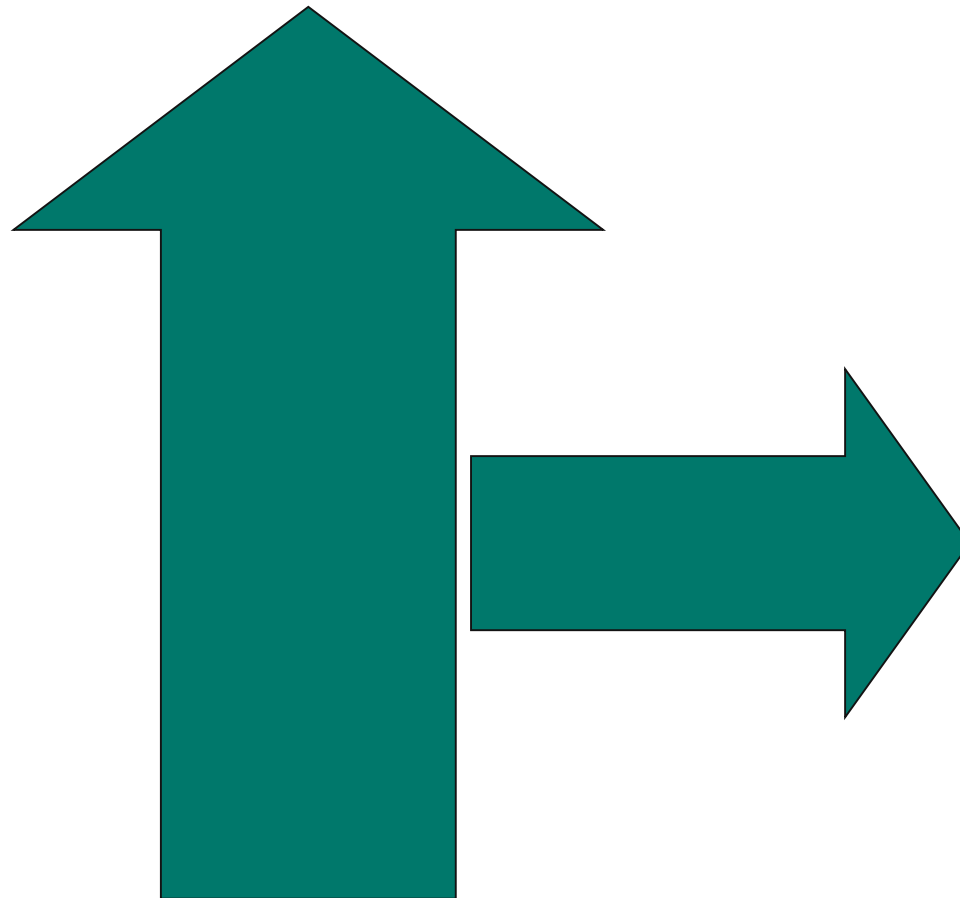
Emissions must be massively reduced



Source: IRENA 2018

Continue as before

Change



Switching to CO2-free, safe
and affordable energy and
sustainable mobility

Energy Saving

Expansion of infrastructure

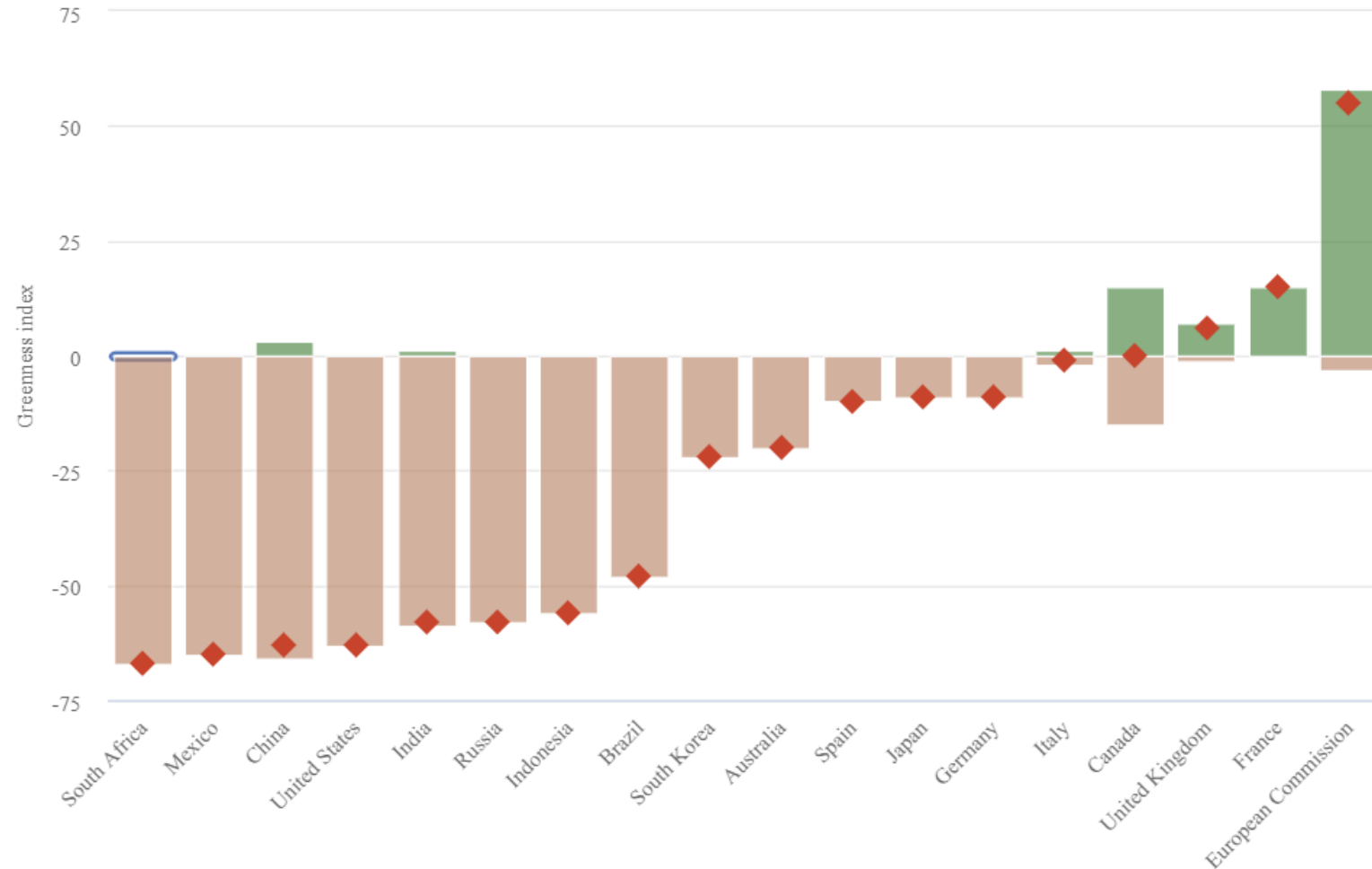
Investments in climate
protection

Sustainable mobility

Stimulus Packages: too brown, not green enough

'Potentially damaging' stimulus measures dominate so far, according to Vivid Economics

The **overall ratings** in Vivid's "Green Stimulus Index" are dominated by measures it rates as **"brown"** rather than **"green"**



Source: Carbonbrief 2020

A fresh start from crisis as an opportunity: 4 D



Decarbonisation

Digitisation

Decentralisation

Democratisation

Social-ecological economic policy: 130 billion euros



- **Expansion of renewable energies:**
 - Remove barriers
 - Expand renewable energies more strongly and more rapidly;
 - Financial participation instead of wind distance rules
- **Promotion of energetic building refurbishment**
- **Expand infrastructure: public transport, rail, bicycle**
- **Changeover bonus: purchase premiums for bicycle, public transport, rail**
- **Industry: special depreciation for investments in energy efficiency, promotion of climate-friendly technologies (Carbon Contracts for Difference)**



Climate protection and energy system transformation create enormous economic opportunities!



100 % RES Communities

Source: 100ee renewable energy region 2017

Climate protection and energy system transformation : Killing three birds with one stone



Economic crisis through Corona: Strengthening regional value added, promoting innovation and increasing competitiveness

Energy crisis: Energy system transformation with full supply of renewable energies creates energy and economic **resilience** + makes us independent of external negative shocks.

Climate crisis: meeting **climate targets**; avoiding the economic costs of climate change

"It is often argued that we cannot afford climate protection, especially in such a crisis. But can we afford not to do climate protection?"

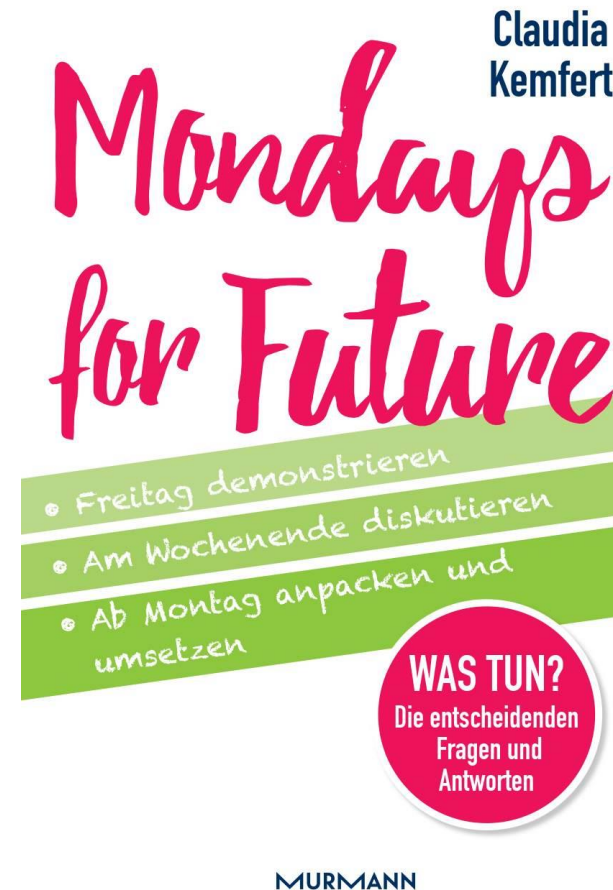
100 % RES Communities

Source: 100ee renewable energy region 2017

Thank you!

www.mondaysforfuture.net

www.claudiakemfert.de

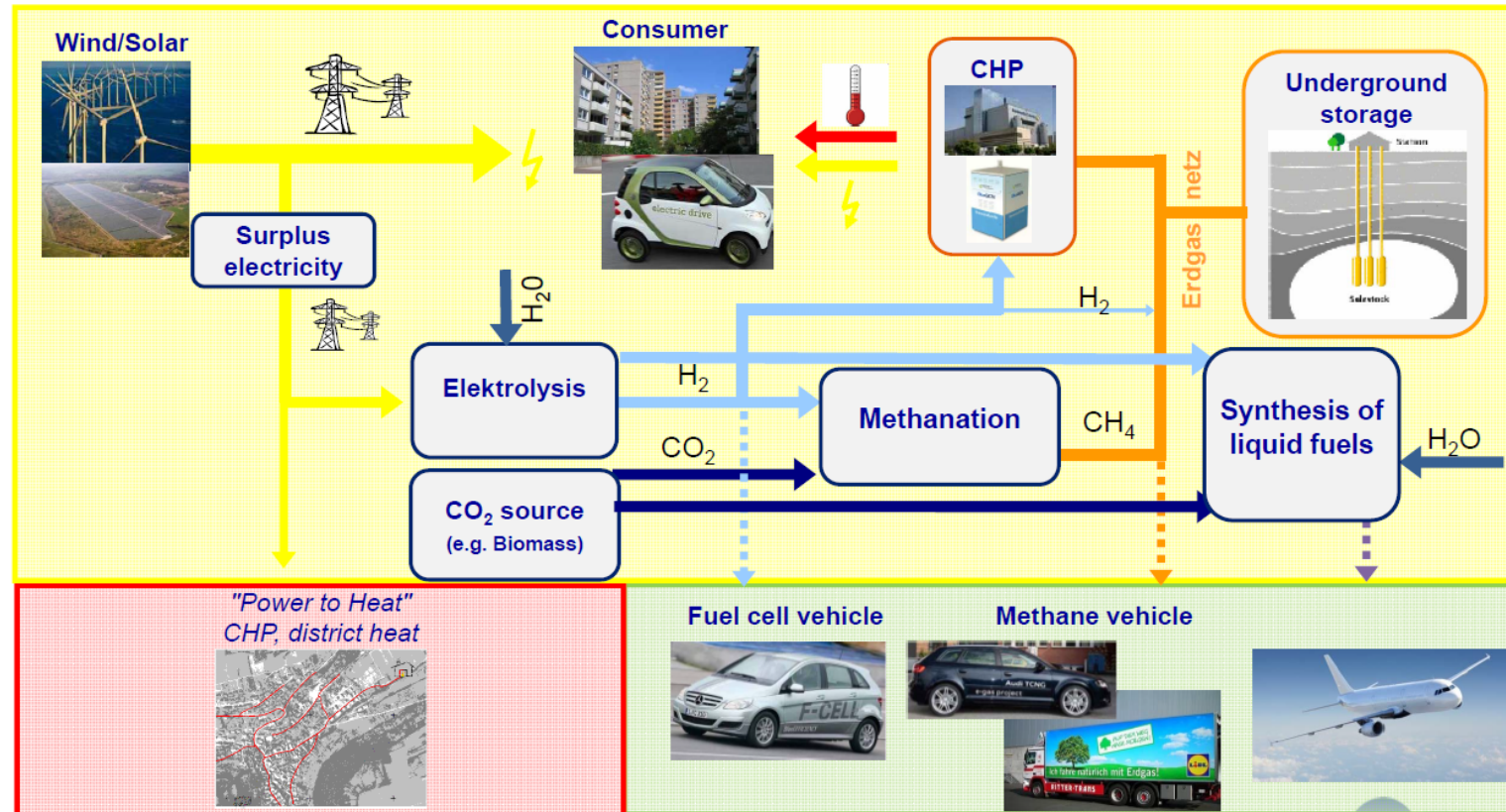


Sector coupling

„We need a more integrated approach.“

Connecting the Energy Sectors

Example: Power to Heat, Power to Gas, Power to Liquids (Power to Chemicals)



Energiewende Trends Energiesystem 15 en.pptx



**100 % renewable energy
system in all sectors is
feasible, economically and
technically efficient**

