

COVID-19 Implications for Scenarios and Modelling and Considerations Moving Forward: Perspectives from the Integrated Assessment Modelling Community

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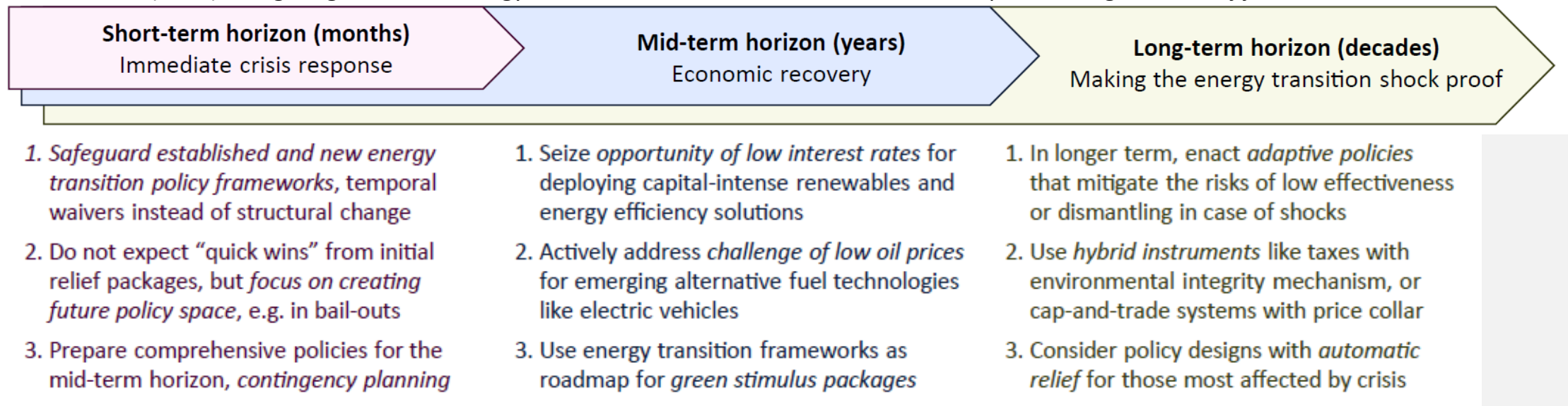
Detlef van Vuuren - PBL (Planbureau voor de Leefomgeving)

SBSTA Chair information event with the scientific community, 8 June 2020

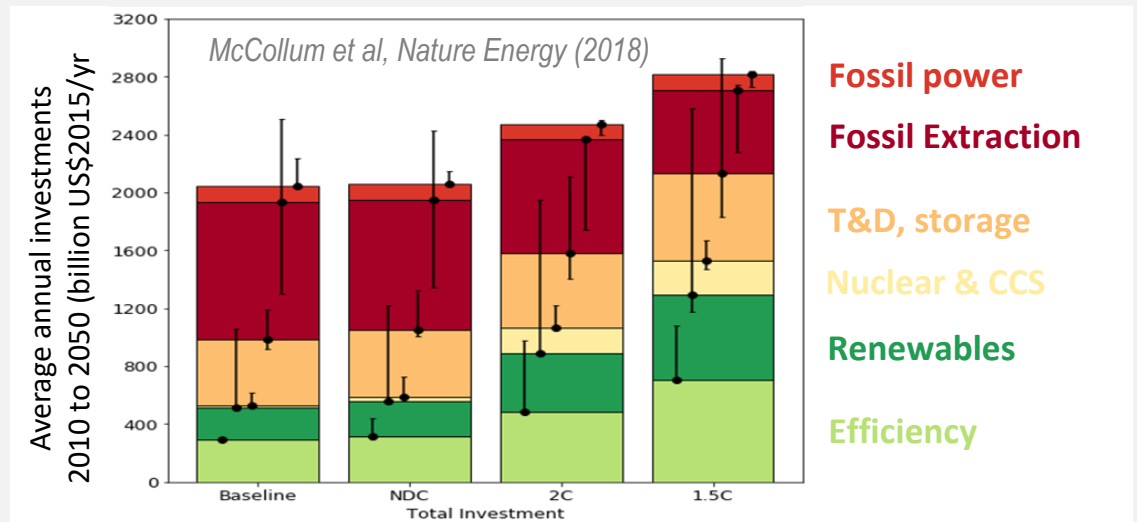


COVID-19 and transition modelling

Steffen et al. (2020) Navigating the Clean Energy Transition in the COVID-19 Crisis, Joule, <https://doi.org/10.1016/j.joule.2020.04.011>.



Recovery packages and catch-up effects will deliver investment boost (>8 trillion \$):
Rebound or acceleration of zero emissions transition?



Long-term impacts of COVID-19 and recovery measures

Structural Change of Economy

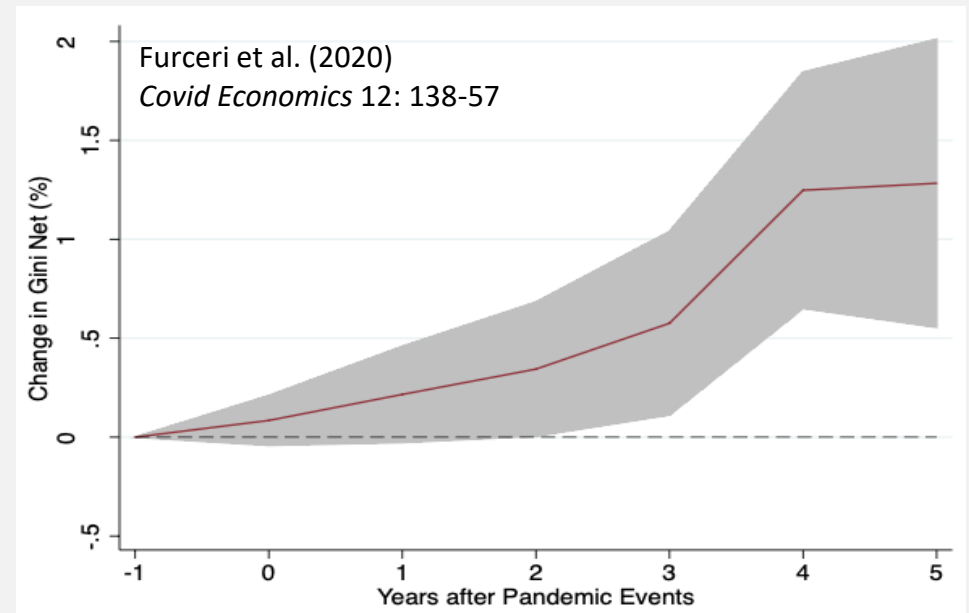
- Long-term growth impact
- Uneven impact on economic sectors accelerating structural change
- Changes to the workplace
- Impact on trade, energy markets, and supply chains

Changing Demand and Lifestyles

- Accelerated digitalisation and impact on lifestyles
- Changes to energy demand, in particular for mobility services

Societal Changes

- Likely increase in inequality



IAM research on impacts of COVID-19 recovery measures And climate policy response on zero carbon transition



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- Combined impact of climate policy and COVID recovery packages on economic growth and structural change: Challenges and opportunities
- COVID impact on energy demand and lifestyles and opportunities for accelerating the transition to low carbon lifestyles
- Implications of rise in inequality for climate policy responses: Tackling climate change and inequality together.
- Impact of COVID-19 on feasibility of transition pathways
- Survey of policy makers on the potential impacts of the COVID-19 crisis on climate policy in different countries
- New climate policy entry points and challenges to existing entry points in a post-COVID environment
- In the medium term: Coordinated update of emission scenarios to reflect the short- and longer-term impact of COVID-19



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