

A fair emissions budget for the Netherlands

Webinar, 29 August 2022

Launch of a report by Hanna Fekete, Niklas Höhne and Sybrig Smit (NewClimate Institute)





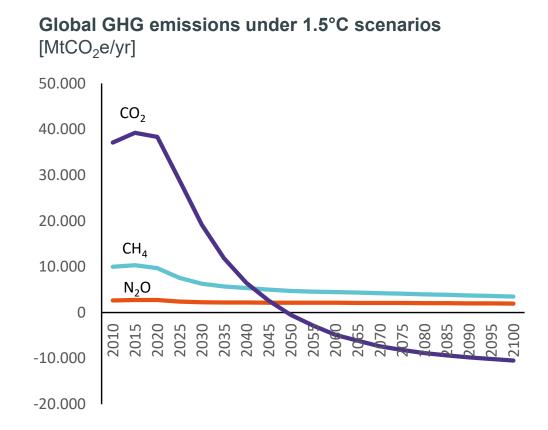
Agenda

- 1. Welcome and introduction (Prof. Dr. Niklas Höhne, NewClimate Institute)
- 2. Presentation of the findings (Hanna Fekete, NewClimate Institute)
- 3. Question and Answer session with the audience

The need for very ambitious climate action



- Warming has reached 1.2°C
- Olobal emissions continue to increase
- To limit warming to 1.5°C
 - GHG emissions need to half by 2030
 - CO₂ emissions need to reach 0 around 2050
- At the current emissions levels, the remaining global CO₂ budget would be gone by 2030
-)> Fast and deep emissions reductions in all sectors are required, everywhere



Data source: Average of selected 1.5°C scenarios from the IPCC special report, extracted from IIASA (2018)

The proposed targets of the government



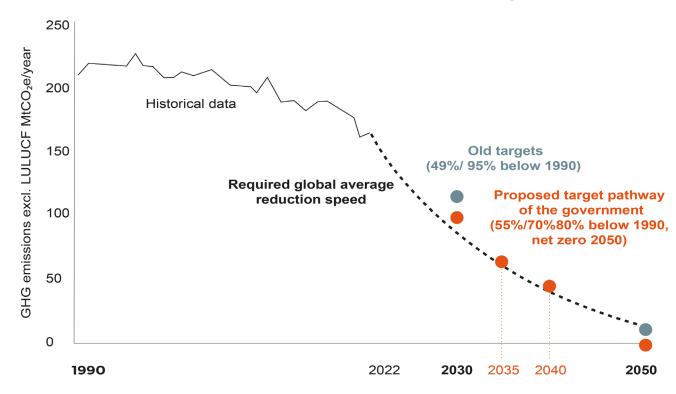
Targets of the Netherlands

- mirror the EU target of 55% below 1990
- roughly align with globally required speed of reduction

Targets of the Netherlands do not

- take a conservative approach to carbon dioxide removal
- reflect the Netherlands' high historical responsibility and capability

The Netherlands' GHG emissions and the rate of global reduction



Data sources: Historical data (Statistics Netherlands (CBS), 2022a, 2022b); targets (VVD D66 CDA en ChristenUnie, 2021), required global average speed: authors own calculations based on the average of selected 1.5°C scenarios from the IPCC special report, extracted from (IIASA, 2018)

Determining the fair contribution



The Paris Agreement:

Article 2.2:

"This Agreement will be implemented to reflect equity and the principle of common but differentiated responsibilities and respective capabilities, in the light of different national circumstances."

Article 3:

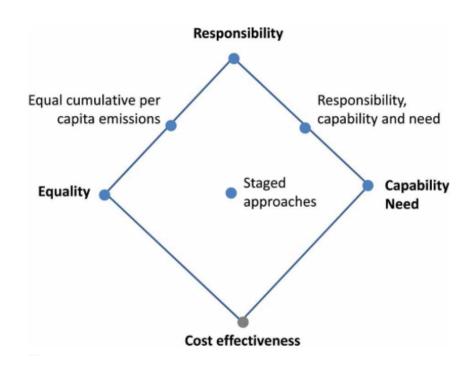
"...all Parties are to undertake and communicate ambitious efforts"

Article 4:

"...Parties aim to reach global peaking of greenhouse gas emissions as soon as possible, recognizing that peaking will take longer for developing country Parties..."

"Each Party's ... [target] will ... reflect its highest possible ambition"

Research uses different emissions allocation approaches to distribute the global efforts



Source: Höhne et al. 2014

Fair share concept has been used



Target setting 2020

-)> IPCC range of 25-40% reduction from 1990 to 2020 used by many countries as guide
- \(\) Urgenda court case: 25\(\) at least

Source: den Elzen, Höhne 2008, 2010

Germany

- Court forced government to revise its climate change law
- No Report on carbon budgets was one element considered

Source: BVerfG, 2021, Sachverständigenrat für Umweltfragen (SRU), 2020

Quantifying fair contributions

- We Used in the Climate Action Tracker since 2009
- Checked against principles of international environmental law

Source: Climate Action Tracker, 2018, Rajamani et al. 2021

Finland

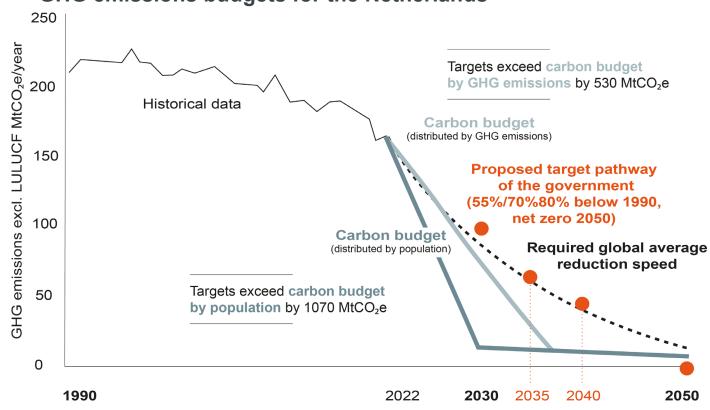
- Finland set a net-zero target for 2035
- Year is based on carbon budget calculations

Source: Climate Home, 2022, Ollikainen, Weaver and Seppälä, 2019

Distributing the carbon budget



GHG emissions budgets for the Netherlands



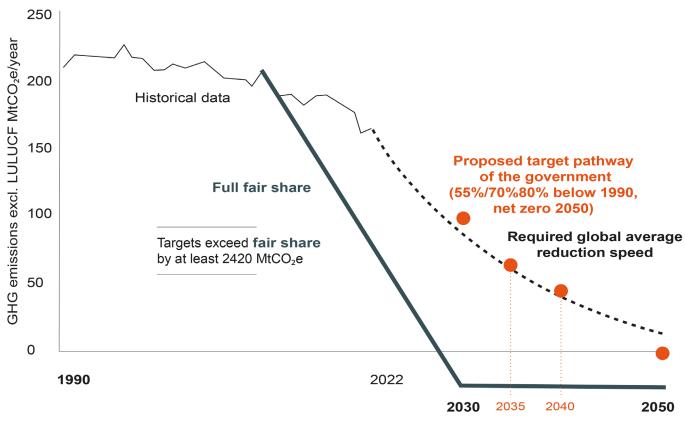
This is still not an unambiguously fair contribution

Data sources: Historical data (Statistics Netherlands (CBS), 2022a, 2022b); targets (VVD D66 CDA en ChristenUnie, 2021), required global average speed: authors own calculations based on the average of selected 1.5°C scenarios from the IPCC special report, extracted from (IIASA, 2018); global carbon budgets as input to calculation of Dutch budgets from IPCC (2021)

The Netherlands' full fair share of the effort



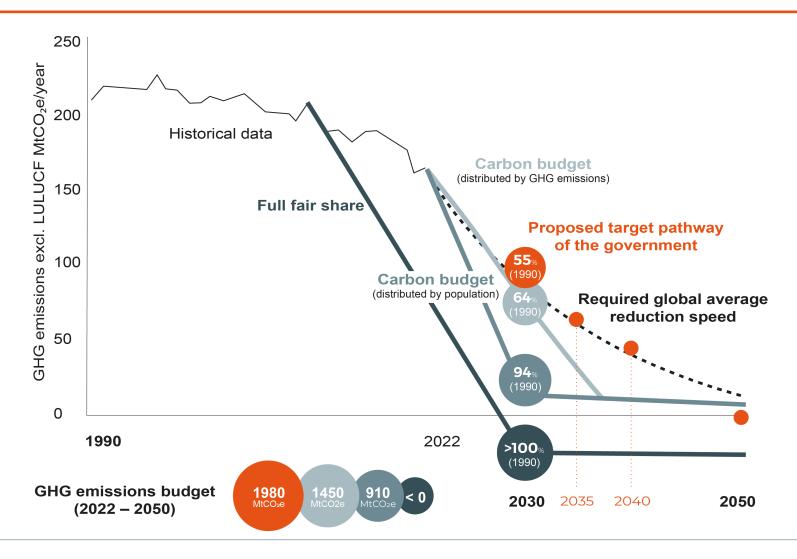
'Fair share' GHG emissions for the Netherlands



Data sources: Historical data (Statistics Netherlands (CBS), 2022a, 2022b); targets (VVD D66 CDA en ChristenUnie, 2021), required global average speed: authors own calculations based on the average of selected 1.5°C scenarios from the IPCC special report, extracted from (IIASA, 2018); fair share for 2030 from Rajamani et al (2021).

Summary of results





Data sources: Historical data (Statistics Netherlands (CBS), 2022a, 2022b); targets (VVD D66 CDA en ChristenUnie, 2021), required global average speed: authors own calculations based on the average of selected 1.5°C scenarios from the IPCC special report, extracted from (IIASA, 2018); emissions trajectories based on carbon budgets: own calculations with budgets from (IPCC, 2021); fair share in 2030 from (Rajamani et al., 2021)

Conclusions





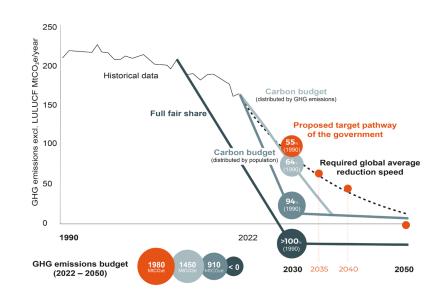
"Fair contribution" is a requirement of the Paris
Agreement: countries are / will be held accountable for it



- Netherlands needs to reduce own emissions as fast as possible: reductions needed beyond global average speed to reflect its historical responsibilities and capabilities
 - -94% by 2030 for distributed carbon budget
 - Negative in 2030 for unambiguously fair contribution



Netherlands also needs to support other countries to make an unambiguously fair contribution, if own emissions are reduced less than given above





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Questions and Answers

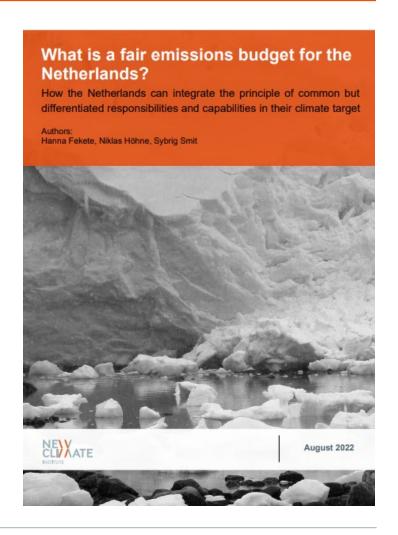


Please send your questions through the Q&A function of the Zoom meeting

The report and a summary in Dutch are available for download:

https://newclimate.org/resources/publications/what-is-a-fair-emissions-budget-for-the-netherlands

We will also upload this power point presentation after the event



References 1/2



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