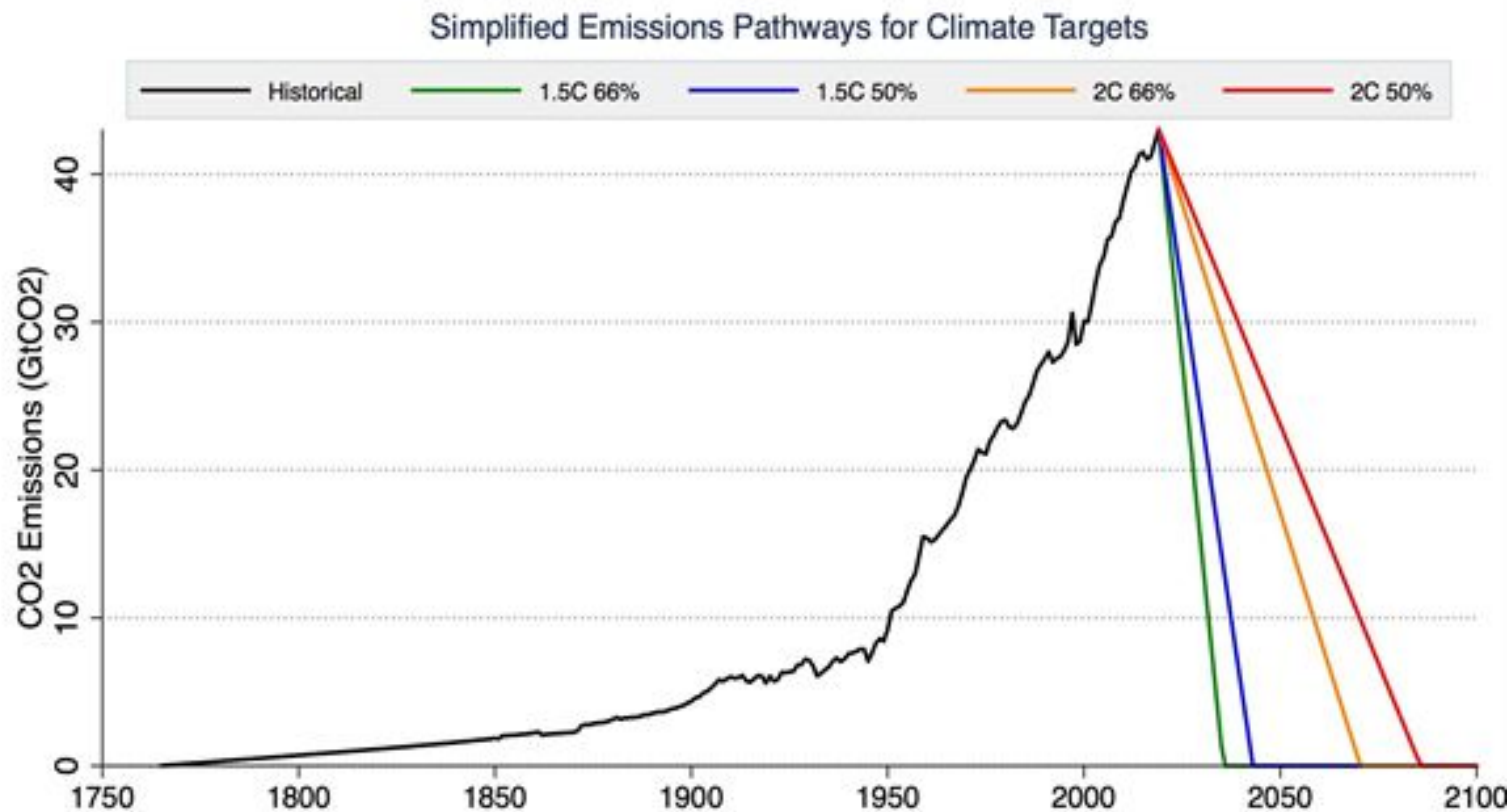


Political Ecology, Degrowth, and the Green New Deal

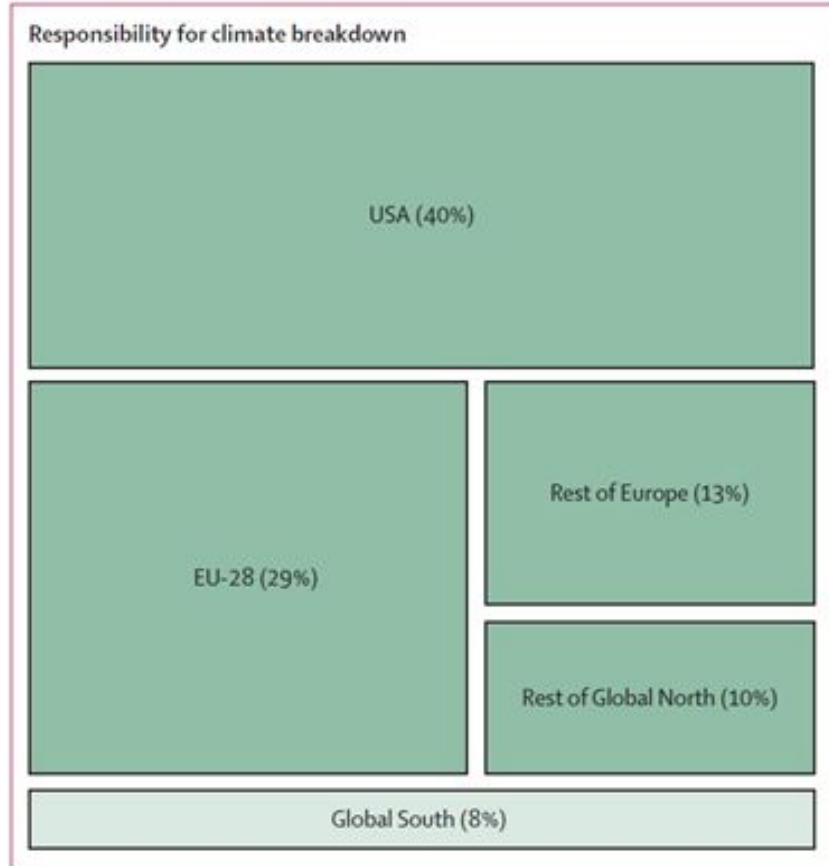
Project title: Equitable Downscaling to Address the Climate Crisis with a
focus on Europe

Andrea Bacilieri, Fabian Dablander, Rayssa Ferrari,
Sophie Reisinger, Federico Sibaja, Mara Strenger

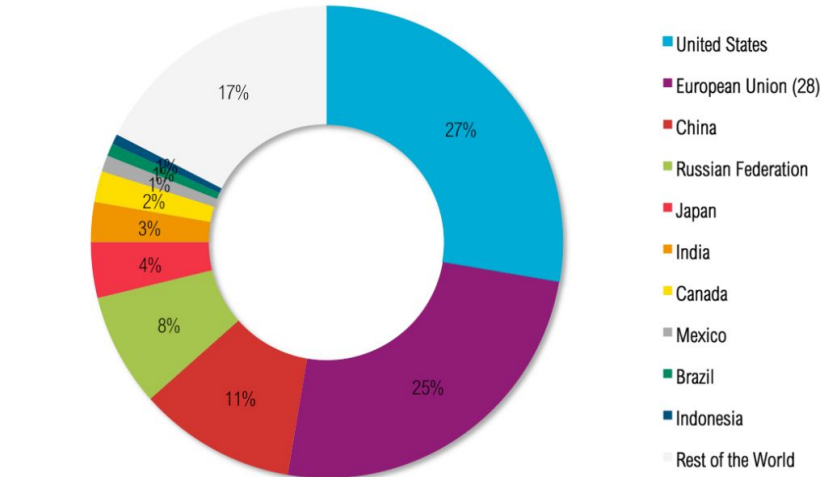
Staying below global temperature targets



Unequal Distribution of Historical Emissions Responsibility



Cumulative CO₂ Emissions 1850–2011 (% of World Total)



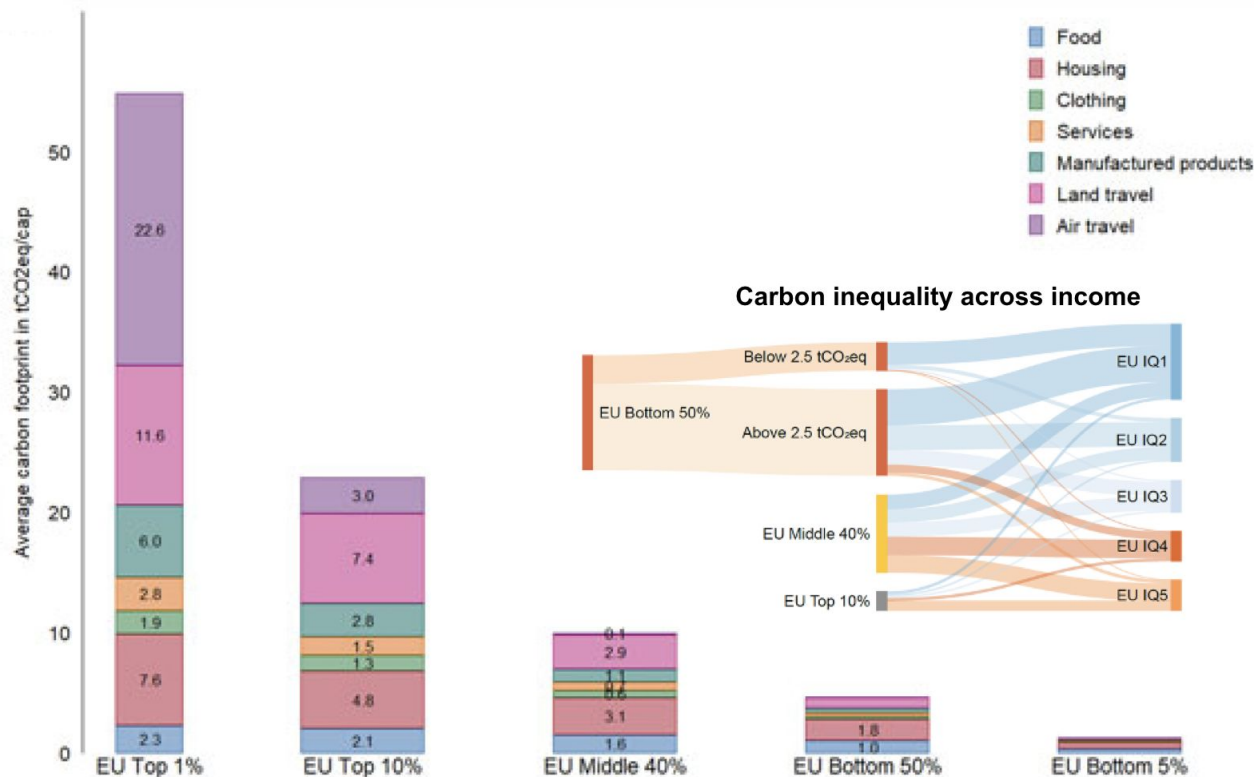
<http://bit.ly/11SMpjA>

 WORLD RESOURCES INSTITUTE

Sources: Hickel, 2020; World Resources Institute, 2014

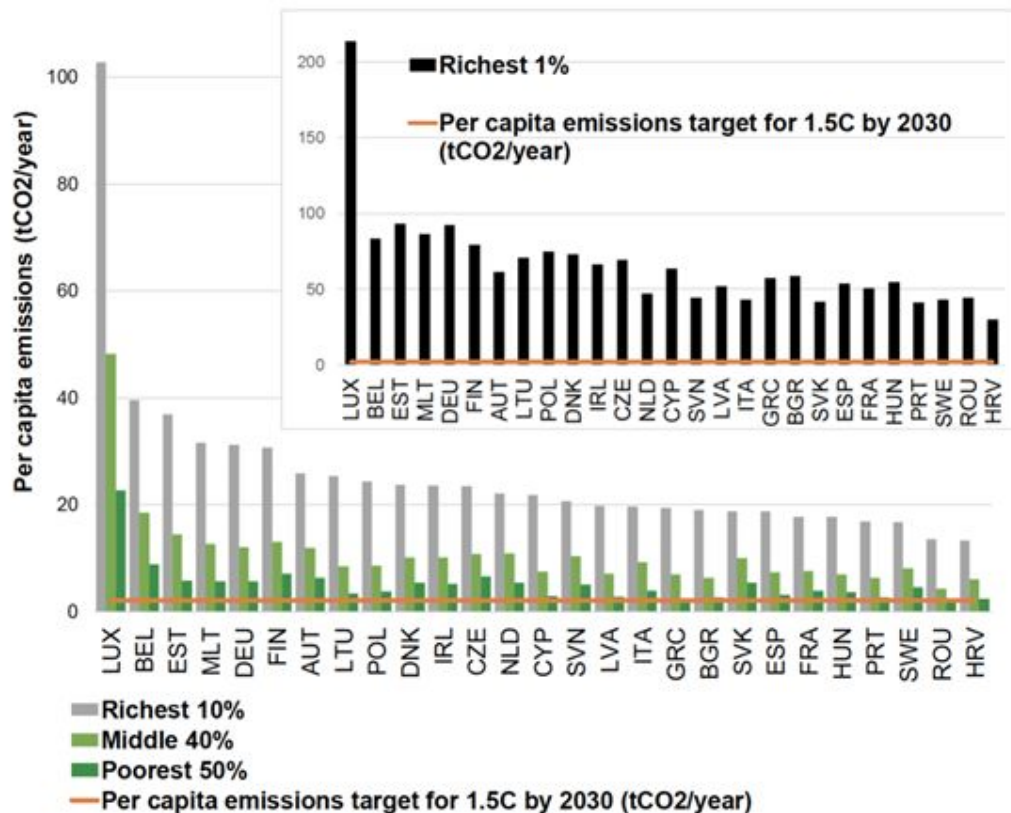
Intersectional Inequality within Europe

Carbon inequality across EU households



Emissions Inequality across EU Member States

Carbon inequality across EU member states



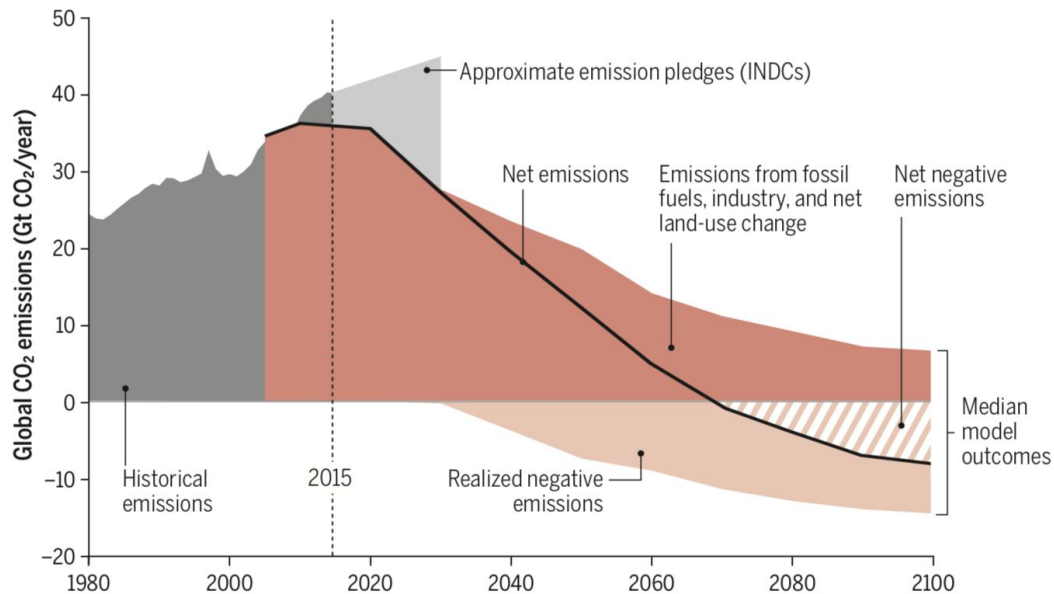
Oxfam's global per capita carbon emissions target to stay below 1.5°C until 2030:

2.1 tCO₂ per year

The Trouble with Negative Emissions Technology

No quick fixes

Modelers generally report net carbon emissions, unintentionally hiding the scale of negative emissions. Separating out the positive CO₂ emissions from fossil fuel combustion, industry, and land-use change reveals the scale of negative CO₂ emissions in the model scenarios (16). INDCs, Intended Nationally Determined Contributions.



“Negative-emission technologies are not an insurance policy, but rather an unjust and high-stakes gamble.”

- Anderson & Peters (2016)

Land used exclusively for removal* could compete with food production

LAND FOR
CARBON
REMOVAL



1.62bn ha

CROPLAND
WORLDWIDE

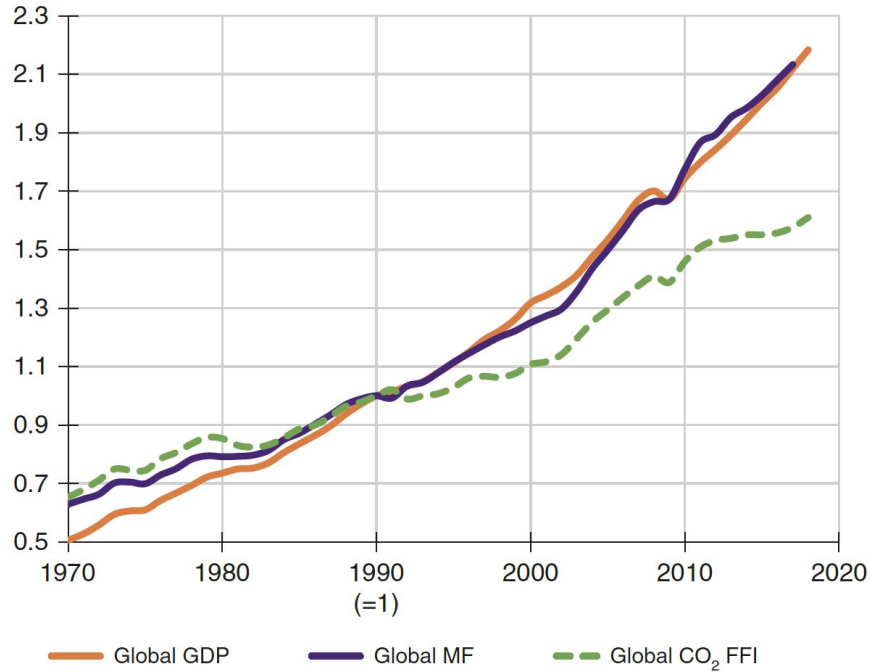


1.5bn ha

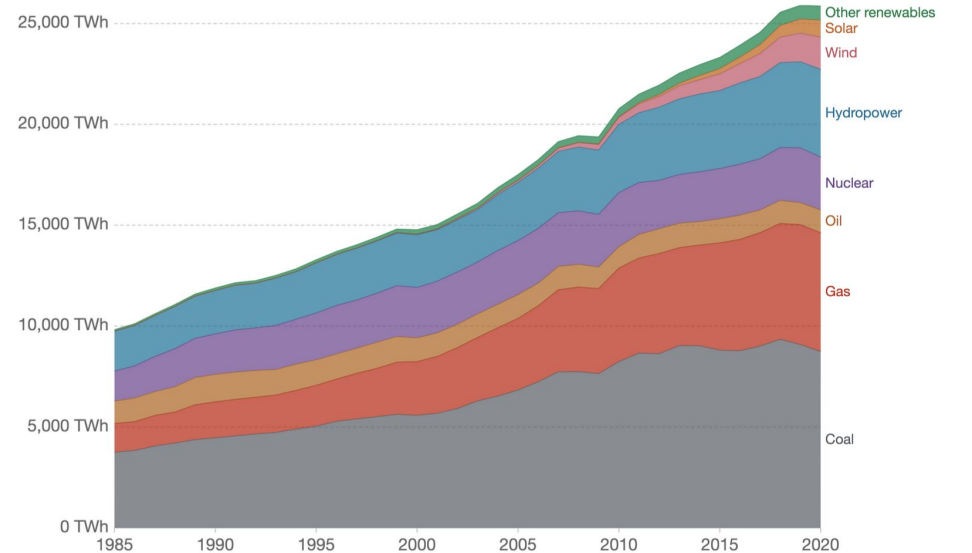
*Afforestation, reforestation and BECCS



The Trouble with 'Green' Growth



Electricity production by source, World



Source: Our World in Data based on BP Statistical Review of World Energy & Ember (2021)
Note: 'Other renewables' includes biomass and waste, geothermal, wave and tidal.

OurWorldInData.org/energy • CC BY

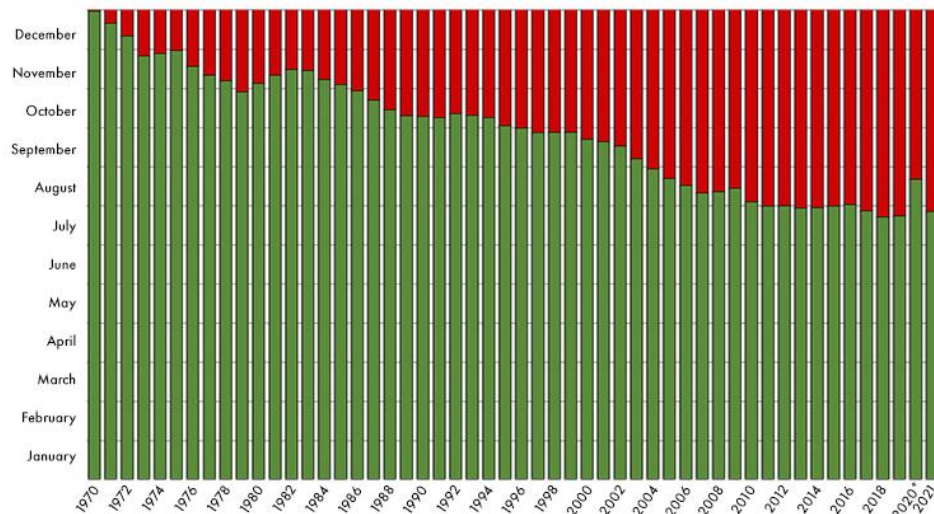


1 Earth

Earth Overshoot Day 1970 - 2021



1.7 Earths



Global Footprint Network
Advancing the Science of Sustainability

fodafo
FOOD AND DATA FOUNDATION



EARTH
OVERSHOOT
DAY

Source: National Footprint and Biocapacity Accounts 2021 Edition
data.footprintnetwork.org

*The calculation of Earth Overshoot Day 2020 reflects the initial drop in resource use in the first half of the year due to pandemic-induced lockdowns. All other years assume a constant rate of resource use throughout the year.



Equitable Downscaling Required

Comment | Published: 04 August 2021

Urgent need for post-growth climate mitigation scenarios

Jason Hickel , Paul Brockway, Giorgos Kallis, Lorenz Keyßer, Manfred Lenzen, Aljoša Slameršak, Julia Steinberger & Diana Ürge-Vorsatz

Nature Energy (2021) | Cite this article

108 Altmetric | [Metrics](#)



Global Environmental Change

Volume 65, November 2020, 102168



Providing decent living with minimum energy: A global scenario

Joel Millward-Hopkins ^a , Julia K. Steinberger ^{a, b}, Narasimha D. Rao ^c



Global Environmental Change

Available online 29 June 2021, 102287

In Press, Corrected Proof 



LETTER • OPEN ACCESS

The energy and carbon inequality corridor for a 1.5 °C compatible and just Europe

Ingram S Jaccard¹ , Peter-Paul Pichler^{4,1} , Johannes Többen^{1,3}  and Helga Weisz^{1,2} 

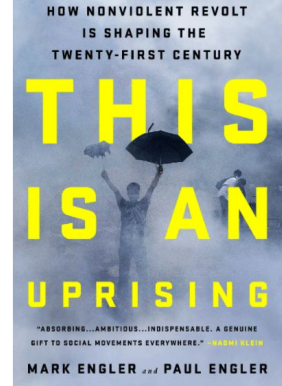
Published 15 June 2021 • © 2021 The Author(s). Published by IOP Publishing Ltd

[Environmental Research Letters](#), Volume 16, Number 6

Citation Ingram S Jaccard et al 2021 *Environ. Res. Lett.* 16 064082

Socio-economic conditions for satisfying human needs at low energy use: An international analysis of social provisioning

Jefim Vogel ^a , Julia K. Steinberger ^{b, a}, Daniel W. O'Neill ^a, William F. Lamb ^{c, a}, Jaya Krishnakumar ^d



Policy Recommendations

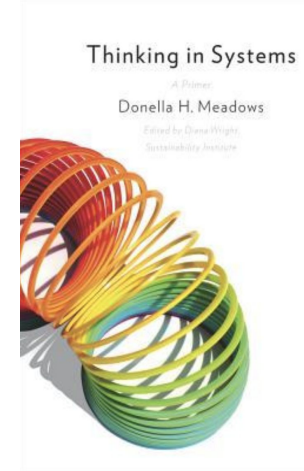
Paradigm/Goals

- Abolish GDP as an indicator
- Decommodify money
- Social enterprises

Rules/Self-organization

- Maximum basic income / wealth limits
- Green taxation
- Job guarantee
- Work-time reduction

“Private sufficiency, public luxury”



Blueprint

Edition II

Dec 2019

The Green New Deal for Europe

For Europe's
Just Transition

GN
DE

Policy Recommendations

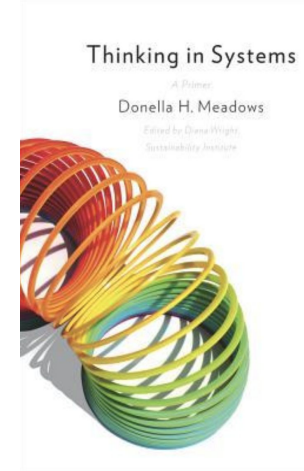
Paradigm/Goals

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“Private sufficiency, public luxury”



Blueprint

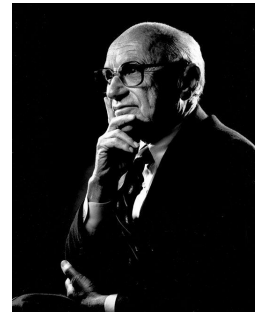
For Europe's
Just Transition

Edition II

Dec 2019

GN
DE

“Only a crisis — actual or perceived — produces real change. When that crisis occurs, the actions that are taken depend on the ideas that are lying around. That, I believe, is our basic function: to develop alternatives to existing policies, to keep them alive and available until the politically impossible becomes politically inevitable.”



Discussion Points

- (1) Do you think it is fair for Europe to take a steeper cut in emissions out of international equity considerations?
 - (a) After all, it is the current generation that will have to change the most, even though past generations caused the emissions.
- (2) The decent living scenario consists of 15m² floor space/cap, 1 laptop/household, 4kg new clothing per year, 5000-15000 pkm/cap/year, ...
 - (a) What do you make of this scenario?
 - (b) How much would your lifestyle change if you transition to this? What aspects in particular?
 - (c) Where do you see the most resistant coming from against this scenario?
- (3) How does what you learned in your workshop relate to what we discussed?

Sources

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<https://www.wri.org/insights/6-graphs-explain-worlds-top-10-emitters>