A CHANGING GLOBAL LANDSCAPE FOR DEVELOPMENT AND CLIMATE ACTION

Leo Horn-Phathanothai

Seminar on "Navigating the Climate Act<mark>ion Landscape: Thailand's Path</mark> in a Changing Global Framework"

26 Sept, 2024 @ TIJ Common Ground



PART ONE **GLOBAL CONTEXT**

A landscape increasingly shaped by climate change and responses to it

PROGRESS



TRENDS

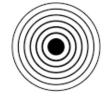






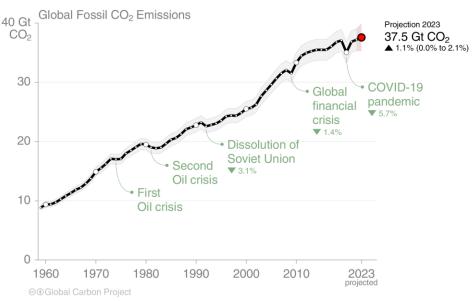


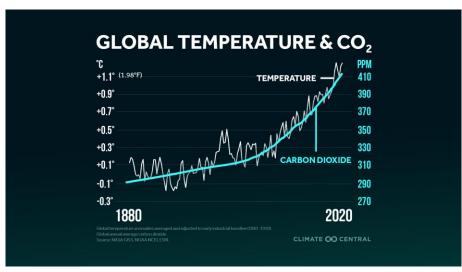




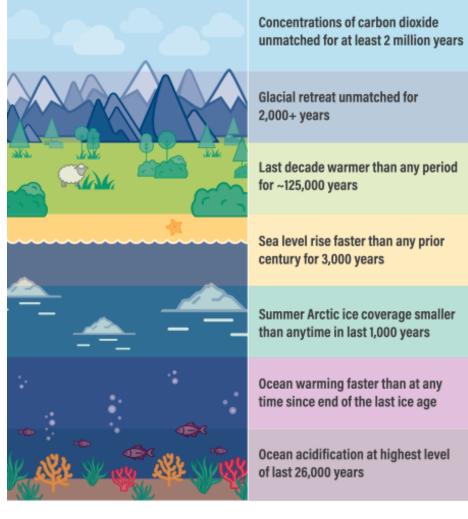
SIGNALS

RISING EMISSIONS & ESCALATING CLIMATE RISKS





Evidence of global warming already underway





CLIMATE TOPS GLOBAL RISK ASSESSMENTS

2024	Extreme weather	Critical change to Earth systems	Biodiversity loss / ecosystems collapse	Natural resource shortage	Misinformation & disinformation
2023	Failure to mitigate climate change	Failure of climate change adaptation	Extreme weather events	Biodiversity loss / ecosystems collapse	Large scale migration
2022	Climate action failure	Extreme weather	Biodiversity loss	Social cohesion erosion	Livelihood crises
2021	Extreme weather	Climate action failure	Environmental damage	Infectious diseases	Biodiversity loss
2020	Extreme weather	Climate action failure	Natural disasters	Biodiversity loss	Environmental damage
2019					
2018					
2017					
2016					
2015					
2014					
2013					
2012					
2011					
2010					
2009					
2008					

Economic

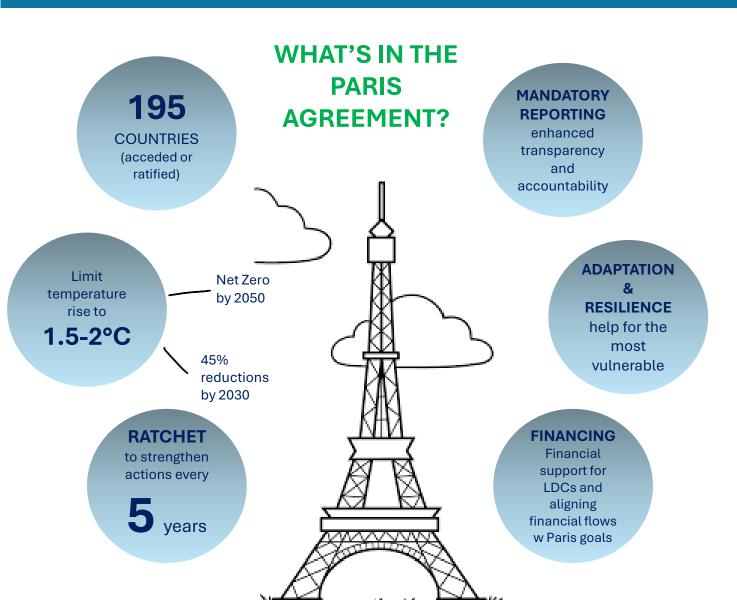
Environmental

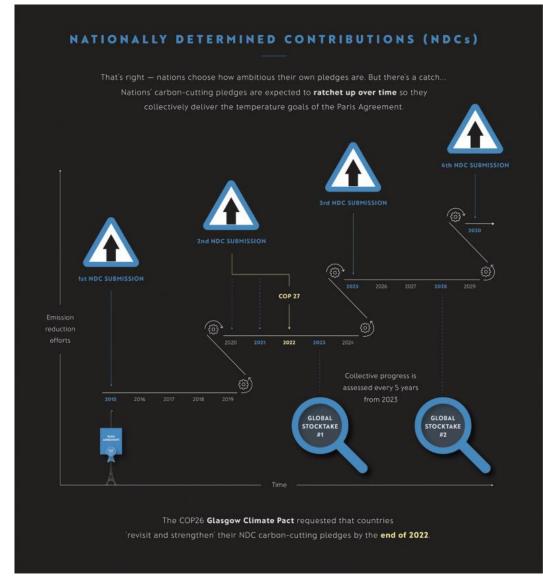
Geopolitical

Societal

Technological

UNIVERSAL FRAMEWORK FOR ACTION





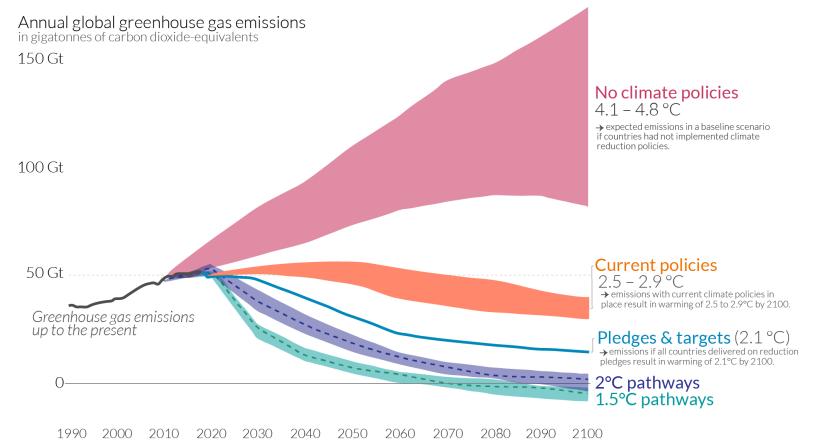
PROGRESS, BUT WE ARE NOT ON TRACK

Global greenhouse gas emissions and warming scenarios



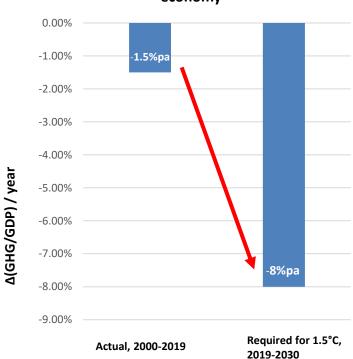
- Each pathway comes with uncertainty, marked by the shading from low to high emissions under each scenario.

- Warming refers to the expected global temperature rise by 2100, relative to pre-industrial temperatures.



Need to decarbonize **5** x faster

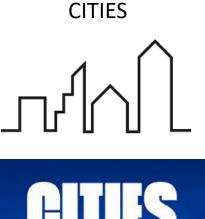




MOMENTUM FOR NET-ZERO IS GROWING



COMPANIES





1,000+
cities
committed to
net zero

FINANCE





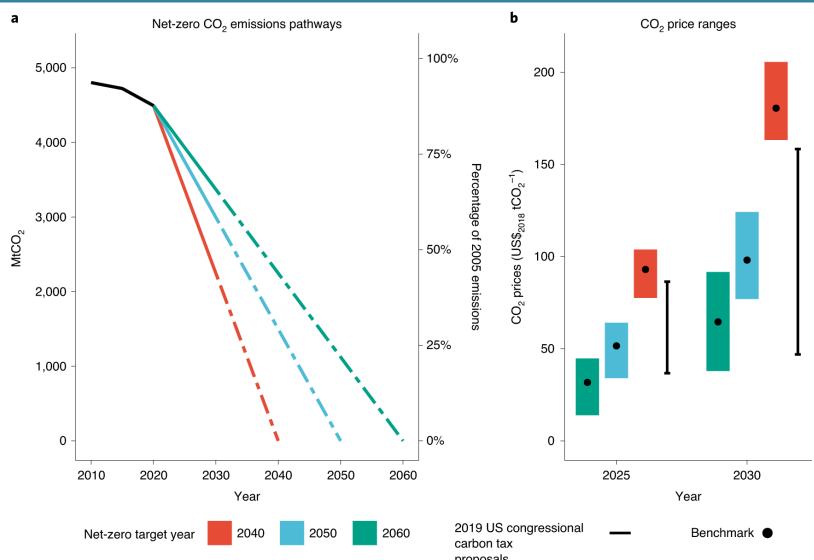
\$130 Trillion in capital committed to net zero

24% of global emissions covered by carbon price

Jurisdictions accounting for **55%** of GDP adopted ISSB reporting standards

= **39%** of global market capitalization

EXPECT CARBON PRICE TO INCREASE



proposals
Source: Kaufman, N., Barron, A.R., Krawczyk, W. et al. A near-term to net zero alternative to the social cost of carbon for setting carbon prices. Nat. Clim. Chang. 10, 1010–1014 (2020). https://doi.org/10.1038/s41558-020-0880-3

AS WELL AS PRESSURE FOR MORE AMBITIOUS CLIMATE ACTION



Adelaide Charlier on successfully passing the EU Nature Restoration Law.



Catalina Santelices on ratifying the Escazú Agreement - a pioneering regional environmental rights law.



Samela Sateré-Mawé on the Brazilian Supreme Court Ruling in Favor of Indigenous Land Rights.



Abigael Kima on the landmark deal agreed to 'transition away' from fossil fuels at COP28.



Sara Dubbeldam on winning a court case against greenwashing in The Netherlands.



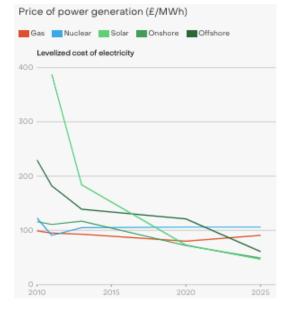
12 y.o Han Jeah was among hundreds of children to bring a successful lawsuit to the constitutional court demanding more action from the government

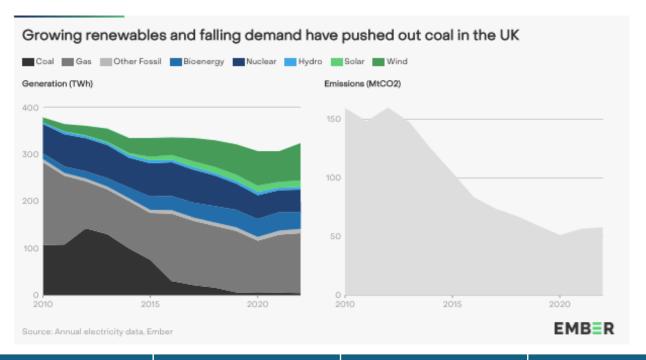
THE END OF AN ERA: U.K. KICKS COAL IN 12 YEARS!





The cost of clean energy has plummeted in the UK





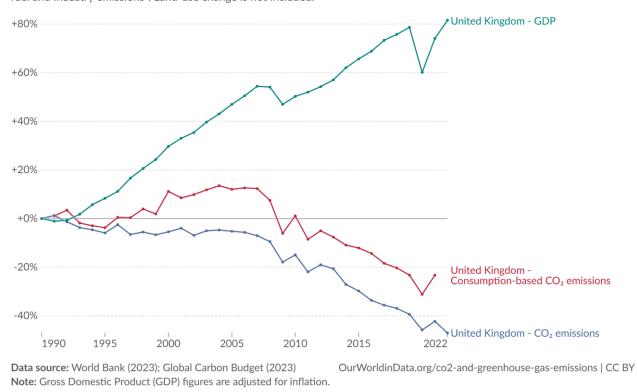
% of generation	2010	2022	Change
Coal	28	2	-94%
Gas	46	39	-15%
Wind	3	25	+906%
Solar	<1	4	+>1000%
Nuclear	16	15	-10%
Power demand (TWh)	382	320	-16%
CO2 intensity (gCO2/MWh)	461	182	-61%

DECOUPLES ECONOMIC GROWTH FROM EMISSIONS

Change in CO₂ emissions and GDP, United Kingdom



Consumption-based emissions¹ are national emissions that have been adjusted for trade. This measures fossil fuel and industry emissions². Land-use change is not included.



1. Consumption-based emissions: Consumption-based emissions are national or regional emissions that have been adjusted for trade. They are calculated as domestic (or 'production-based' emissions) emissions minus the emissions generated in the production of goods and services that are exported to other countries or regions, plus emissions from the production of goods and services that are imported. Consumption-based emissions = Production-based - Exported + Imported emissions

^{2.} Fossil emissions: Fossil emissions measure the quantity of carbon dioxide (CO_2) emitted from the burning of fossil fuels, and directly from industrial processes such as cement and steel production. Fossil CO_2 includes emissions from coal, oil, gas, flaring, cement, steel, and other industrial processes. Fossil emissions do not include land use change, deforestation, soils, or vegetation.

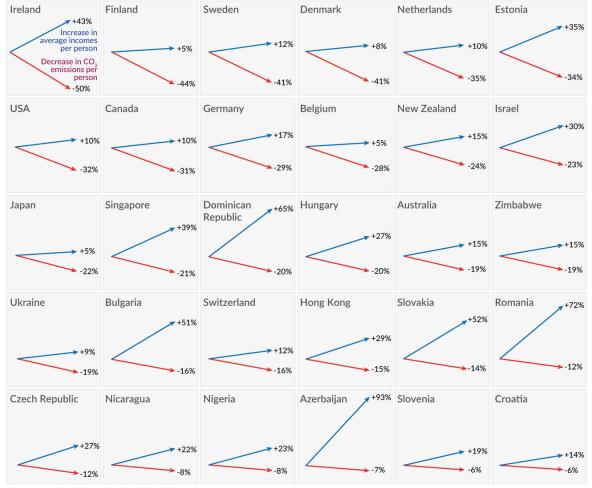
MORE COUNTRIES JOINING THE CLUB

Decoupling: Countries that achieved economic growth while reducing CO₂ emissions, 2005–20



Emissions are adjusted for trade. This means that CO_2 emissions caused in the production of imported goods are added to its domestic emissions – and for goods that are exported the emissions are subtracted.

Average incomes are measured by GDP per capita (except for Ireland, for which it is measured by GNI per capita).



Data sources: Global Carbon Project & World Bank.

There are more countries that achieved the same, but only those countries for which data is available and for which each change exceeded 5% are shown.

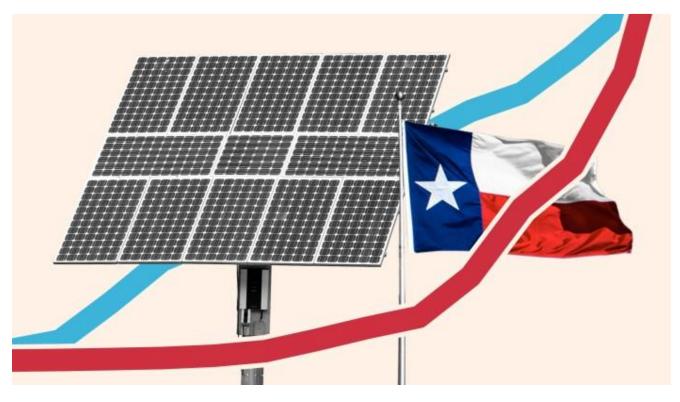
OurWorldInData.org - Research and data to make progress against the world's largest problems.

Licensed under CC-BY by the author Max Roser

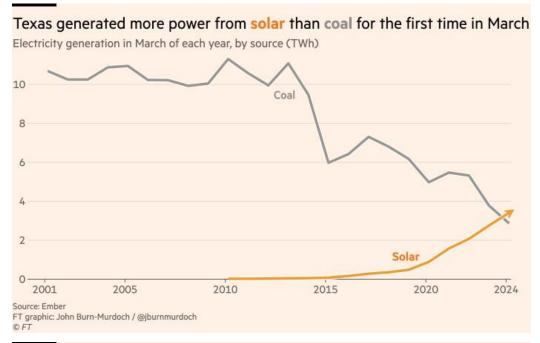
FINANCIAL TIMES

How red Texas became a model for green energy

The state's solar surge proves that the energy transition defies politics



John Burn-Murdoch May 24, 2024



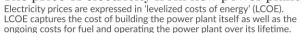




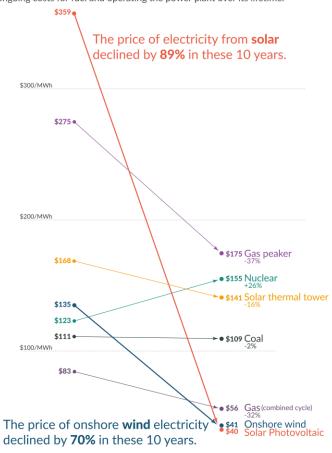
EARLY PEAKING OF CHINA'S EMISSIONS

POWER FROM RENEWABLES CHEAPER THAN FROM FOSSIL FUELS IN MOST COUNTRIES

The price of electricity from new power plants Our World







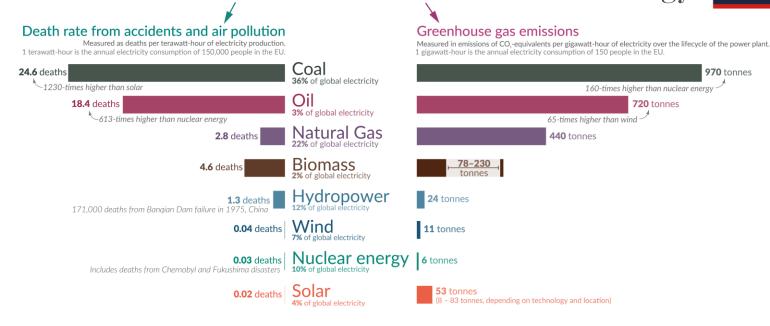


Data: Lazard Levelized Cost of Energy Analysis, Version 13.0 Licensed under CC-BY OurWorldinData.org - Research and data to make progress against the world's largest problems. Under CC-BY by the author Max Roser.

... and better for our health and safety!

What are the safest and cleanest sources of energy?





Death rates from fossil fuels and biomass are based on state-of-the art plants with pollution controls in Europe, and are based on older models of the impacts of air pollution on health. This means these death rates are likely to be very conservative. For further discussion, see our article: OurWorldinData.org/safest-sources-of-energy. Electricity shares are given for 2021. Data sources: Markandya & Wilkinson (2007); UNSCEAR (2008; 2018); Sovacool et al. (2016); IPCC AR5 (2014); UNECE (2022); Ember Energy (2021).

OurWorldinData.org – Research and data to make progress against the world's largest problems.

Licensed under CC-BY by the authors Hannah Ritchie and Max Roser.

COP28: HISTORIC DEAL TO TRANSITION FROM FOSSIL FUELS



THE KUNMING-MONTREAL GLOBAL BIODIVERSITY FRAMEWORK: A PARIS TYPE AGREEMENT FOR NATURE

Paris moment for nature

The UN Biodiversity Summit has approved a landmark deal to protect nature and direct billions of dollars towards biodiversity conservation. Highlights of the deal



The Kunming-Montreal Global Biodiversity Framework contains threats to 23 action-oriented targets, which have been divided in three broad categories:

Reducing biodiversity

Meeting people's needs through sustainable use and benefitsharing

Tools and solutions for implementation and mainstreaming

HT

KEY TARGETS



Conserve area: At least 30% of terrestrial, inland water, and coastal, marine areas, are conserved



Restore ecosystems: At least 30% of areas of degraded ecosystems are under restoration



Reduce harmful subsidies: Identify, and eliminate incentives harmful for biodiversity



Officials at the United Nations Biodiversity Conference (COP15) in Montreal. AFP

DIVERGENCES REMAIN: Division over how to fund efforts led to intense negotiations, with China, chair for COP15, disregarding objections from the delegation of the DRC







Response options to thrive whilst transitioning to a climate-safe future

DENY/IGNORE



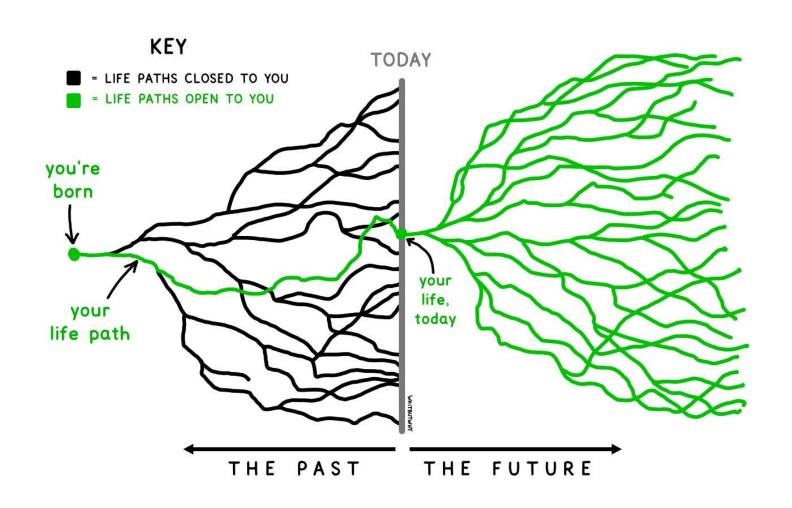
REACT



CREATE BETTER ALTERNATIVE

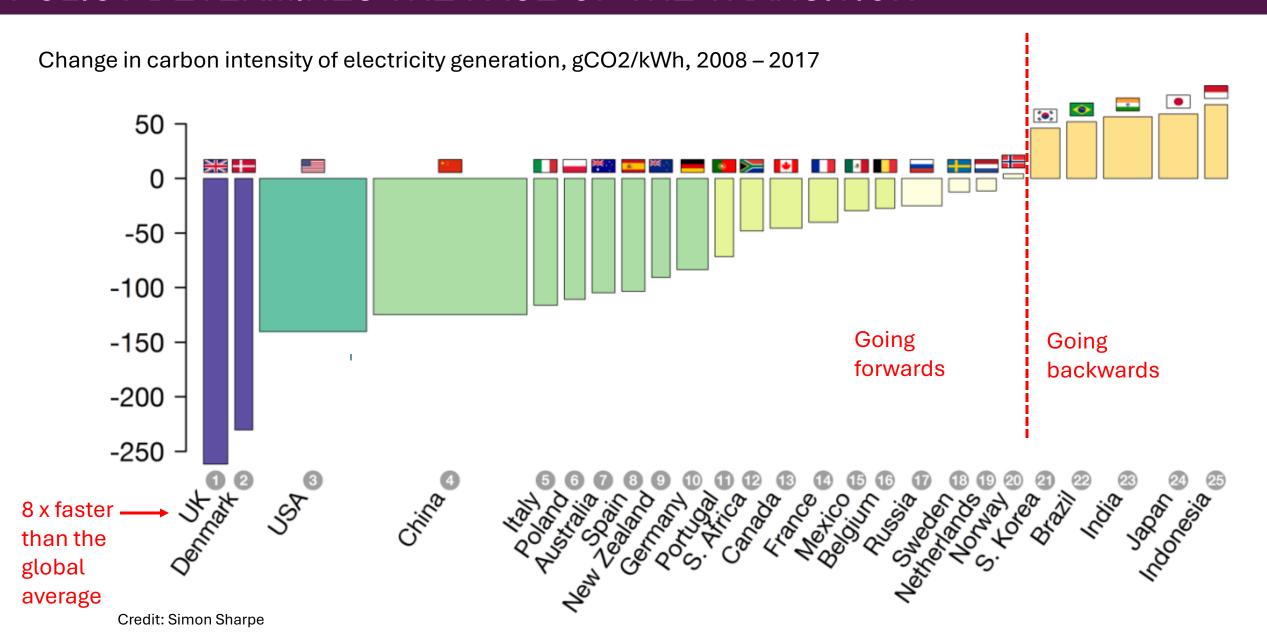


CHOICES NOW AFFECT OPTIONS LATER



So, how do we make better choices?

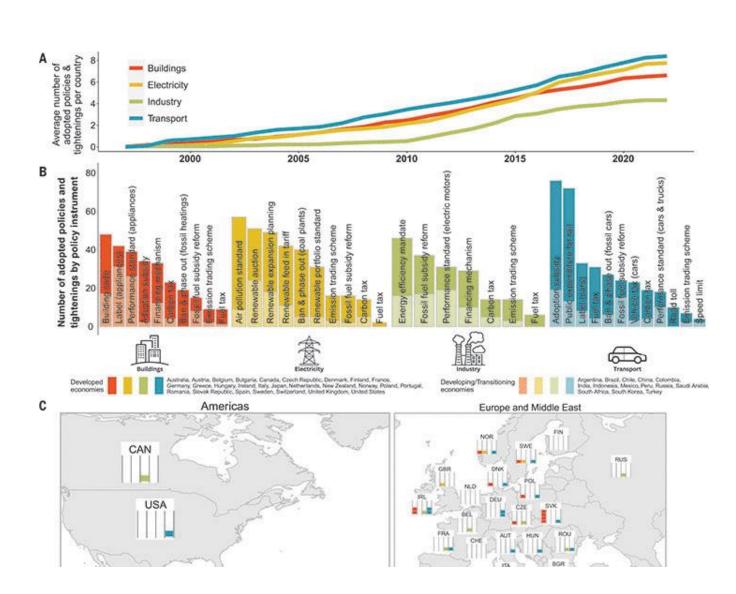
POLICY DETERMINES THE PACE OF THE TRANSITION



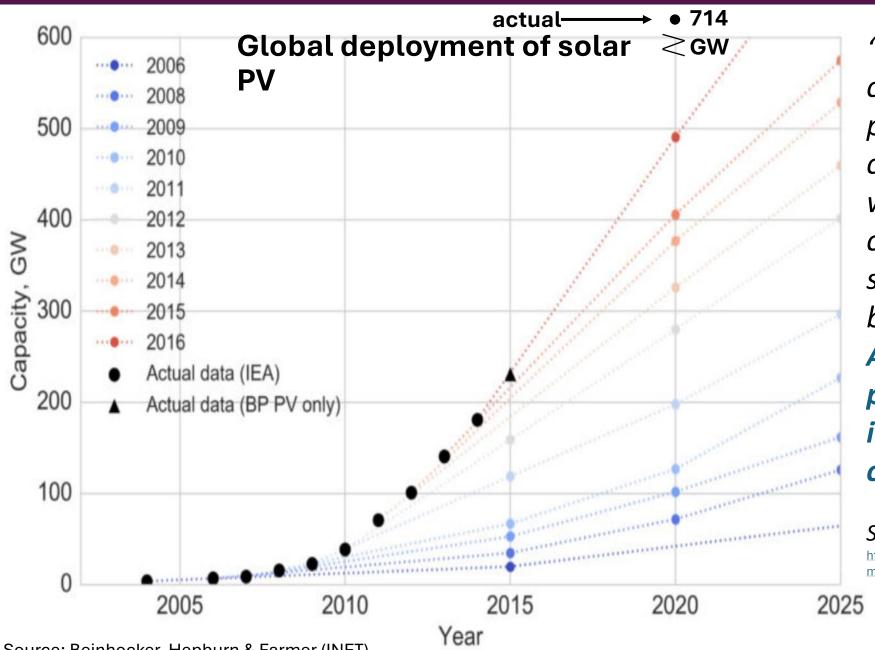
POLICIES THAT ACHIEVED MAJOR EMISSION REDUCTIONS



Global evidence from 1500 climate policies implemented over the past 25 years



INVESTMENT BEATS TAX, EARLY IN A TRANSITION



"Today, renewable energy is cheaper than coal in many places in the world, all major car manufacturers are working on several electric car models, and cities are starting to switch to electric buses.

All of this was achieved with policies focussed on new investments, not with carbon taxes."

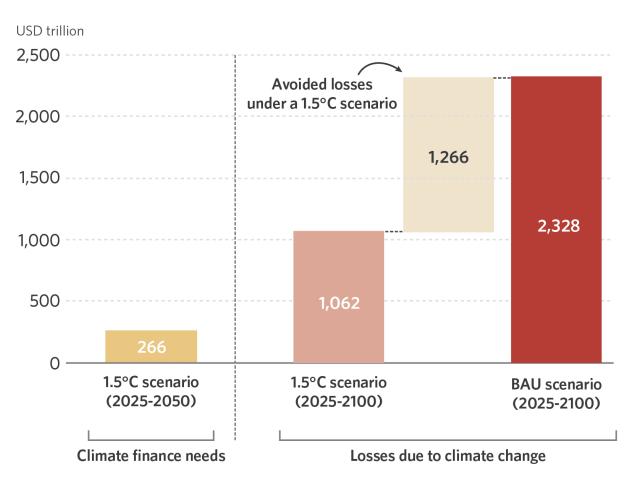
Stephane Hallegatte & Julie Rozenberg

https://blogs.worldbank.org/climatechange/all-hands-deckmobilizing-all-available-instruments-reduce-emissions

Source: Beinhocker, Hepburn & Farmer (INET)

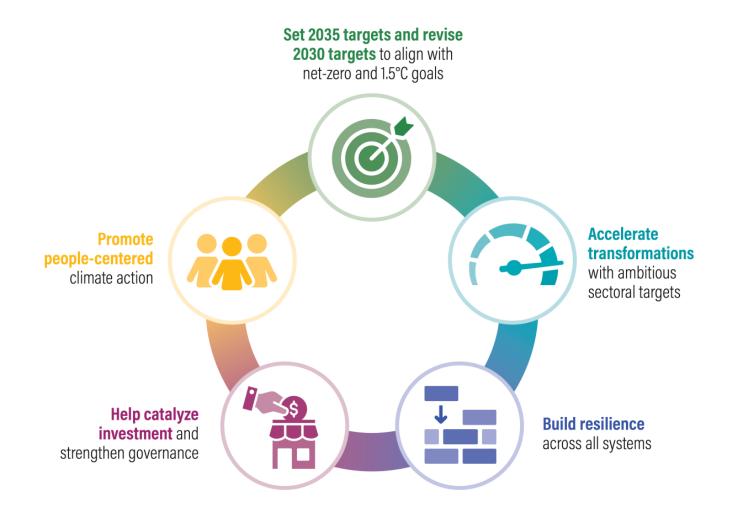
A SOUND FINANCIAL INVESTMENT

Figure ES4: Cumulative climate finance needs vs. losses under 1.5°C and BAU scenarios



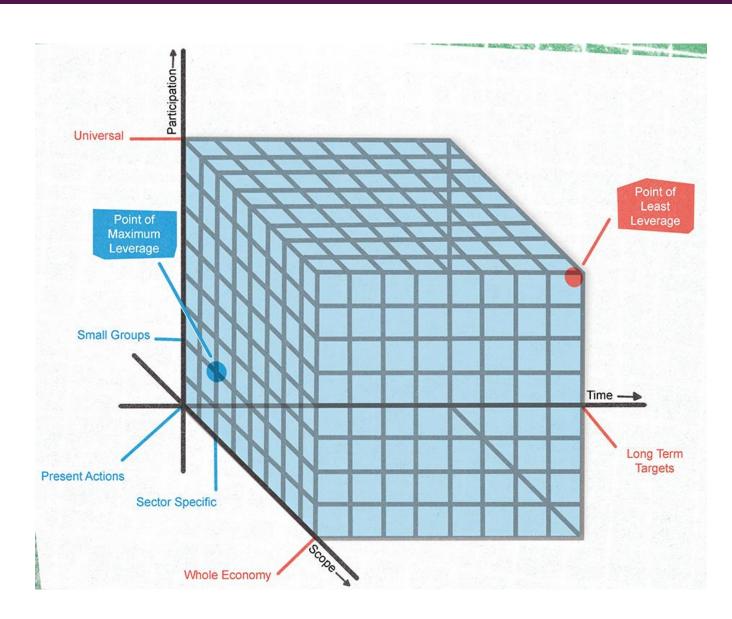
Source: Climate Policy Initiative

CREATE A STRONG SIGNAL IN THE REVISED NDC



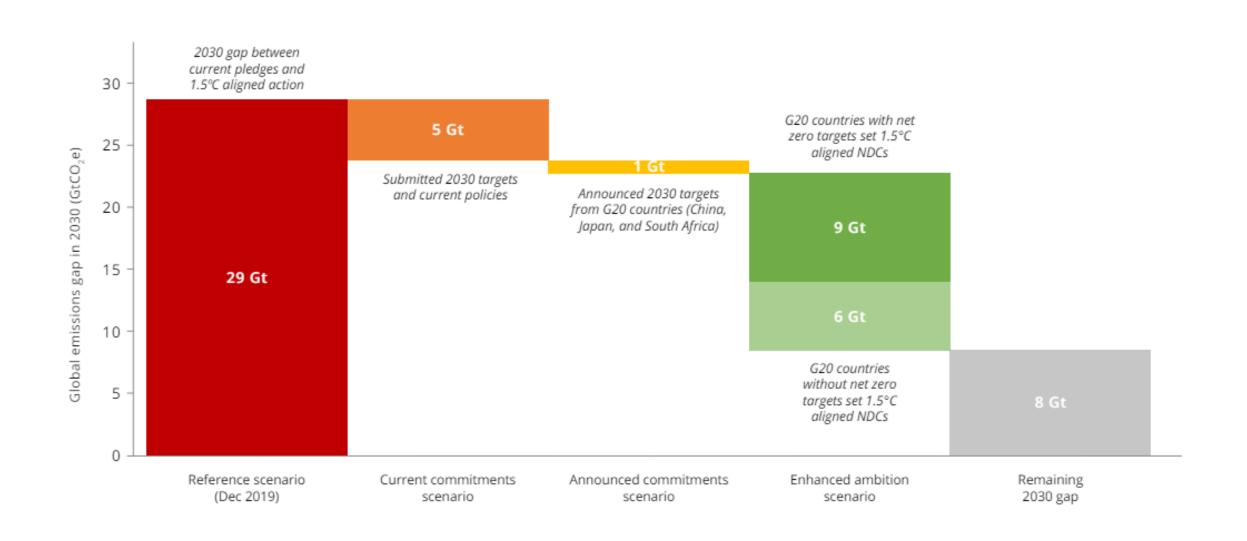
DIPLOMACY: SEEK HIGHER LEVERAGE CONFIGURATIONS

Focus of climate diplomacy for this decade?



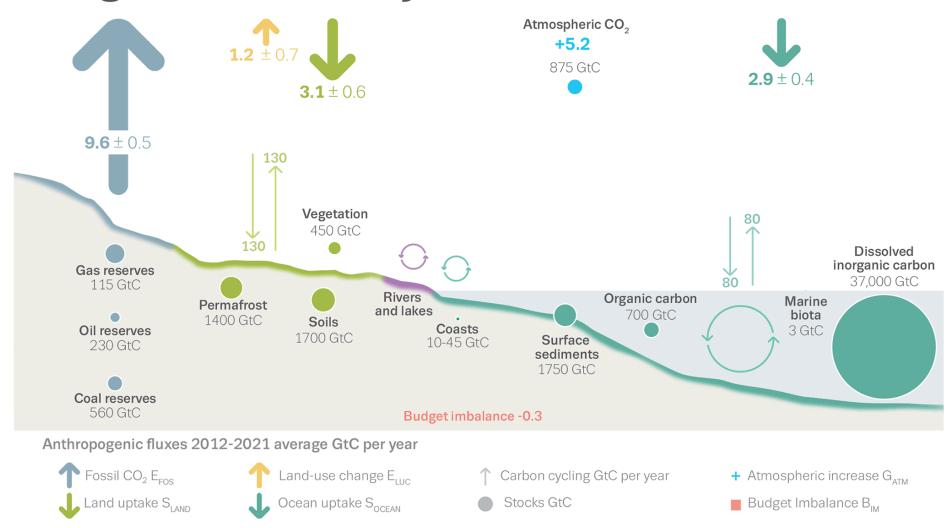
Focus of climate diplomacy for the last 30 years

MOST OF THE 2030 EMISSIONS GAP CAN BE CLOSED BY ENHANCED G20 AMBITION

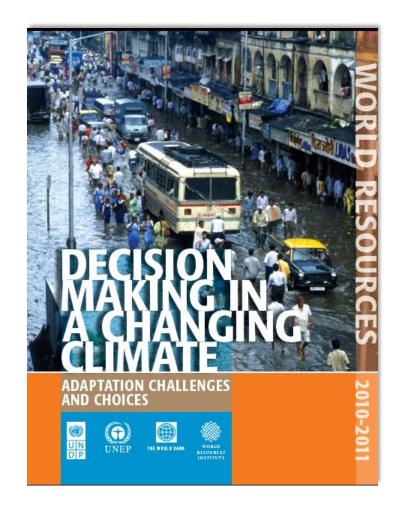


ALLY WITH NATURE

The global carbon cycle



ELEMENTS OF EFFECTIVE DECISION MAKING





Available online at www.sciencedirect.com

ScienceDirect



Does public participation lead to more ambitious and transformative local climate change planning? Massimo Cattino¹ and Diana Reckien



The scientific literature is inconclusive with regard to whether public participation leads to more ambitious and transformative local climate governance. We review the scientific literature and, for climate adaptation, interpret whether the level of participation is associated with transformative potential of adaptation. For mitigation, we analyze whether public participation in local climate plans is significantly related t local greenhouse gas reduction targets. We find that public participation has a positive impact on both, the transformative potential of adaptation and the ambition for mitigation. The influence of participation on adaptation is stronger than the influence on mitigation. Based on our review, we highlight four conditions under which public participation can lead to notentially transformative action and greater local climate ambition, that is, recognition of all actors, their clear and meaningful engagement in all decision making stages, full decision-making power of the involved public, and the support of a logic of welfare.

University of Twente, Faculty of Geo-information Science and Earth Observation, Department of Urban and Regional Planning and Geo Information Management, Hengelosestraat 99, 7514 AE Enschede,

Permanent address: Circonvallazione Trionfale 34, 00195 Rome, Italy

1877-3435/© 2021 The Authors. Published by Elsevier B.V. This is an open access article under the CC BY license (http

It seems widely acknowledged, that public participation-also termed community participation or citizen participation-benefits local government decision making [1]. Public participation is 'any process that directly engages the public in decision-making and gives full

consideration to public input in making that decision [2]. Often, it refers to 'a deliberative process by which interested or affected citizens, civil society organisations, and government actors are involved in policy-making before a political decision is taken' [3]. We use the term 'public participation' synonymous with citizen participation and community participation, acknowledging that there are different types, forms and levels of participation (see Ladder of Participation by Arnstein [4*]). These different levels can be placed on a 'continuum of interaction between government and the public, ranging from informing and listening at one end, to implementing ointly agreed solutions at the other; and in between there is dialogue, debate and analysis' [3]. Important aspects of genuine participation is the possibility for involved citizens to come to a shared understanding of problems and potential solutions, and with that to change one's mind throughout the process, instead of just exchanging or listening to other views [3].

Assumed benefits of public participation are related to legitimacy [5], justice and equity of planning processes and outcomes, greater awareness of communities about societal problems addressed with the plan or policy, that is, learning and empowerment, larger willingness for community cooperation and dialogue, and increased individual behavioral change, all with the consequence of stronger and more resilient communities [6**,7-11.12*.13-15l. In particular with the acknowledged climate crisis [16] and related needs for a societal transfor mation [17] public participation may be seen as a condition of success [6**] in transforming societies towards climate resilience and carbon neutrality by way of local and regional decision-making. As an example, one of the main goals of the youth climate movement is substantially higher climate ambition and faster mitigation action [18,19]. Without the persistent youth strikes and related calls for more climate action countries' mitigation strate gies would not be as ambitious. The recent decision of Germany's Federal Constitutional Court that the country must provide more explicit plans to reduce greenhous gases (GHG) emissions through to 2050, instead of 2030, is regarded a major victory for climate youth activists [20] Similar, for adaptation, one could assume that public participation would lead to more ambitious adaptation, as people at risk and affected by climate impacts migh

* Given his/her/their role as Guest Editor, Diana Reckien had no involvement in the peer-review of this article and has no access to information regarding its peer-review. Full responsibility for the editorial process for this article was delegated to Rachael Shwom.

Current Opinion in Environmental Sustainability 2021, 52:100-110

Good decisions are the ones that are opened up to the public and grounded in participatory processes that are unmistakably democratic in character.

Given the deep uncertainties and long-time horizons characteristic of decisions relevant to climate change adaptation, effective public engagement is all the more critical to ensure legitimacy and durability of policy decisions.

