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Sixth Assessment Report WORKING GROUP III – MITIGATION OF CLIMATE CHANGE

Why Haven't We Bent the Global Emissions Curve?

Technical Summary, page 130:

"Obstacles include both entrenched power relations dominated by vested interests that control and benefit from existing technologies, and governance structures that continue to reproduce unsustainable patterns of production and consumption."

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"Sustainable solutions require adoption and mainstreaming of locally novel technologies that can meet local needs, and simultaneously address the SDGs."



Annual Review of Environment and Resources Three Decades of Climate Mitigation: Why Haven't We Bent the Global Emissions Curve?

Isak Stoddard,¹ Kevin Anderson,^{1,2} Stuart Capstick,³

collective failure to bend the global emissions curve. However, <u>a common thread that emerges</u> across the reviewed literature is the central role of power, manifest in many forms, from a dogmatic political-economic hegemony and influential vested interests to narrow techno-economic mindsets and ideologies of control. Synthesizing the various impediments to mitigation reveals



Stoddard et al. (2021) Three Decades of Climate Mitigation: Why Haven't We Bent the Global Emissions Curve? Annual Review of Environment and Resources, 46, 653-689. https://doi.org/10.1146/annurev-environ-012220-011104











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Sixth Assessment Report



Demand and services

- potential to bring down global emissions by 40-70% by 2050
- walking and cycling, electrified transport, reducing air travel, plant-based diets etc. make large contributions
- lifestyle changes require systemic changes across all of society
- some people require additional housing, energy and resources for human wellbeing



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In modelling pathways that assume lower demand, mitigation challenges are clearly reduced.





























Turner, G. M. (2019) Is a sustainable future possible? Journal and Proceedings of the Royal Society of New South Wales, 152, 47-65.

inward/record.uri?eid=2-s2.0-85073240779&partnerID=40&md5=25dddb

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Journal & Proceedings of the Royal Society of New South Wales, vol. 152, part 1, 2019, pp. 47-65. ISSN 0035-9173/19/010047-19

Is a sustainable future possible?

Graham M. Turner*

Earth Accounts Consulting, Verona, NSW 2550, Australia E-mail: contact@earthaccounts.com.au

Pathways to sustainability

Nevertheless, human societies are inherently innovative. Consequently, to examine the possible strategies for alleviating the environmental/resource stresses identified above, ASFF was used to model ambitious technological, population and lifestyle changes in succession (Turner, 2016):

- sweeping efficiency gains are made, across every sector of the economy;
- the power sector was also transitioned to mostly renewables;
- population was stabilised by halving the fertility rate and imposing a zero net immigration rate—so the number of people entering Australia matches those leaving; on the lifestyle front, in order to avoid unemployment:
- personal and household consumption rates were halved, and;
- crucially, the labour force shifts over decades to a 3-day working week, though the four days of "leisure" would be quite different from contemporary experience.

The modelling shows it takes the whole collection of ambitious strategies to achieve meaningful change (Figure 4). For GHG,



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Economic growth is closely linked to increases in production, consumption and resource use and has detrimental effects on the natural environment and human health. It is unlikely that a long-lasting, absolute decoupling of economic growth from environmental pressures and impacts can be achieved at the global scale; therefore, societies need to rethink what is meant by growth and progress and their meaning for global sustainability.

ublished 11 Jan 2021 — Last modified 18 Jan 2022 — 15 min read — Photo: © Ricardo Gomez Angel on Unsplash

https://www.eea.europa.eu/publications/growth-without-economic-growth/growth-without-economic-growth

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European Environment Agency	Imagining sustainable futures for Europe
 ← → C a eea-europa.eupublications/acenarios-for-a-sustainable-europa-2050/ European Environment Agence	The need to preserve and reconnect to nature and the local community is part of society's 'common sense'. Technology is used sparingly to enable sustainable lifestyles.
Imaginary 4: Ecotopia	Consumption and resource use are being scaled back. Reduced economic output is limiting the size of the public sector, implying a bigger role for civil society in maintaining welfare.
¢	Businesses are managed with the involvement of diverse stakeholders, while communities play an active role in bottom-up decision-making processes, including at the European scale.
ttps://w	ww.eea.europa.eu/publications/scenarios-for-a-sustainable-europe-2050



Beyond Growth

Towards a New Economic Approach

We are facing a series of converging planetary emergencies linked to the environment, the economy, and our social and political systems, but we will not meet these challenges using the tools of the last century. We need to rethink the role of the economy in improving the well-being of people and the planet. As the world's leading intergovernmental forum on economic policy, the OECD has a central role to play in creating a new economic narrative. OECD Secretary-General



https://www.oecd-ilibrary.org/economics/beyond-growth_33a25ba3-en















Sections	SUMMARY POINTS	
ABSTRACT KEYWORDS INTRODUCTION: THREE DE	 Despite three decades of political efforts and scientifically informed warnings of the likely catastrophic effects of climate change, CO₂ emissions have continued to rise globally and are 60% higher today than they were in 1990. 	
REVIEWING THREE DECAD GOVERNANCE, GEOPOLITI ECONOMICS, MITIGATION	 Since the first IPCC report was published in 1990, more anthropogenic fossil CO₂ has been released into the atmosphere than previously throughout all of human history. 	
EQUITY, LIFESTYLES, AND I DISCUSSION CONCLUSION	 The failure of leadership, particularly from within high-emitting countries, sectors, corporations, and individuals, has locked in intra- and intergenerational suffering and long-term existential threats to livelihoods and ecosystems. 	
SUMMARY POINTS FUTURE ISSUES DISCLOSURE STATEMENT	Entrenched geopolitical, industrial, and military power and associated mindsets are fundamental barriers to effective mitigation.	
AUTHOR CONTRIBUTIONS ACKNOWLEDGMENTS LITERATURE CITED	8. Attention to equity, high-carbon lifestyles, and	
RELATED RESOURCES	conditions for enabling new social imaginaries has	
	the potential to disrupt dominant, high-carbon	
	development pathways.	
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