Climate Finance And Moral Risk Transfer: Pricing Intergenerational Equity In Sustainable Capital Allocation

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Abstract: Climate finance has become an overriding tool of dealing with climate change by aligning capital to mitigation and adaptation policies. Nevertheless, all alongside its economic goals, climate finance also incorporates ethical conjectures regarding the manner in which climate-induced threats and accountabilities can be apportioned over time. This paper looks at the transfer of moral risks in sustainable capital allocation such as whether the existing climate finance mechanisms are sufficient to price intergenerational equity. The study scores green bonds, transition finance, carbon markets, and climate insurance schemes using a mixed methods approach that incorporates both qualitative policy analysis and quantitative financial modelling. According to the findings, even at current market-based discount rates of 68 these would result in the incorporation of 1829 percent of long run climate damages in current financial values, and 5575 percent of future climate-related expenses remain unpriced. Such scenario modelling also demonstrates that the use of lower social discount rates (132) would turn the project valuation inside out such that the net present value would decrease by USD up to 140 million on long-term projects, revealing the degree of hidden intergenerational reverse burdens moving. The comparative analysis with the current literature makes sure that this underpricing is not a mainly data or uncertainty issue, but a structural consequence of financial valuation norms. The paper will conclude by determining that, unless racism specifically incorporates intergenerational equity into the risk pricing and capital allocation frameworks, climate finance will remain a temporal risk-shifting machine, and not a process that can achieve real climate justice.
Keywords: Climate finance; Moral risk transfer; Intergenerational equity; Sustainable capital allocation; Discounting

I. INTRODUCTION

The climatic change is not only an environmental crisis but a very deep financial and ethical problem that alters the distribution of capital over time, societies, and generations. With governments, financial institutions and corporations now moving in large volumes to mobilize climate finance to finance mitigation and adaptation initiatives, questions emerge as to how risks and responsibilities can be shared between current and future populations [1]. Green

bonds, carbon pricing, climate insurance, and transition finance are the climate finance mechanisms, which are intended to handle uncertainty and encourage sustainable investment. Nevertheless, these tools tend to assume implicit morality regarding where the costs of it and where the benefits of it are assigned to, and therefore they can be characterized as moral risk transfer [2]. Moral risk transfer results when the economic, environmental and social costs of the decisions that are taken today in regard to climate change are shifted to future agents without their approval or sufficient reparation. Although traditional financial models are more concerned with efficiency, optimalized returns, and the short- to medium-term risks management they often underestimate long-term ecological impairment and generations to generations welfare [3]. The ways in which discounting is applied, the approaches to risk pricing, and those based on the market sustainability measurements are thus prone to drown out the ethical frameworks, so that the current players can outsource the climate risks to seem financially sound or eco-friendly. This study addresses the question of whether the existing climate finance principles sufficiently embed intergenerational equity in sustainable investment of capital. It is a critical analysis of the way in which moral responsibility is coded into financial models of valuation or omitted thereof. The study attempts to identify the structural biases, by incorporating climate economics, financial theory, and moral philosophy insights, in order to expose the contribution to the present economic stability instead of resilience in the long term plan of the planet and society. Finally, this study contends that the concept of intergenerational equity should not be explicitly integrated by climate finance in decision making because it will result as a tool of ethical displacement as opposed to actual climate justice. It is vital to reframe climate finance not only as a financial framework but also as a moral framework to make sure that the process of sustainability transition is not only a shift in time of risk, but reasonably allocates the responsibility between generations.

II. RELATED WORKS

Recent research into climate finance is starting to appreciate effectiveness with regard to the fact of sustainability not only being a technical or economic problem but an issue that is profoundly rooted in ethical, political, and institutional framework. The new literature encompasses the fields of green finance, climate governance, risk transfer, and justice-based critiques, and can provide valuable reference points to understanding and analysing the moral risk transfer and intergenerational equity in sustainable capital allocation. Imen [15] goes further and builds on blue finance, emphasizing the concept of ocean-based investments incorporating sustainability, innovativeness, and resilience. Although the study focuses on long-term ecological security, it turns out to have a structural gap between investment horizons and ecological timeframes. This discontinuity implicitly would move environmental and financial risks forward in time, which is an issue of concern to intergenerational equity discussions, just not presented as directly based on moral risk transfer. Jalil [16] considers climate change in a legal-normative approach by suggesting that an international grundnorm is developed to guarantee sustainability in an alternative approach to security. It is a great work in terms of preempting ethical and legal duty to the future generation. Nevertheless, it does not necessarily question how such normative commitments are put into practice or interrupted by the processes of financial valuation and pricing. Kabir et al. [17] study green finance within the framework of technological modernisation by analysing a case of Russia. Their empirical review shows that green finance can serve as a pointer of economic change. However, the research mainly quantifies current economic performance and technological productivity with

a little understanding of how the long run environmental costs were put across generations. To map risk syllabus and linkage of sustainable finance literature, Ke et al. [18] use bibliometric analysis to map risk spillovers. Their evidence proves the increasing academic interest in systemic climate risk and financial interdependence. However, much of the literature that they are performing a survey of presents risk as a market variable without much information on the ethical aspect of such, especially the intergenerational responsibility.

Krogmann [19] criticizes liberal environmentalism in the light of global polycrisis in that climate solutions based on market-driven approaches tend to perpetuate structural inequalities. This criticism is very much related to the current research since it implies that the frameworks of governance of climate can justify risk displacement as opposed to settling it, even across time. Policymaking and monetary-wise, Kroll and Kuhne [20] coined the name climate bailouts as one of the current methods of central banks facing climate financial risks. Though it is an innovative solution, it arguably socialises future losses, a concept that has also raised the issue of moral hazard and the intergenerational transfer of burden that have not been fully dealt with by their analysis. Lavell [21] concentrates on disaster risk reduction (DRR) financing, stating that it does not resolve the problems of the long-term resilience-investment discrepancy. The paper emphasizes on the way in which short-term funding cycles compromise preparedness, which indirectly enhances future vulnerability and expenses. The existence of history about climatic occurrences given by Liritzis [22] supports the duration of time of climatic risks which puts doubts on the financing progressive of time limits. The justice dimension is also introduced by Mohanty [23] who insists on impartiality in climate talks on behalf of the Global South and shedding light on how the current injustices reinforce other forms of injustice generational inequalities. Critically, ESG is explored by Morgan [24] in cybernetic and neoliberal terms as a conclusion of ESG that can be a stabilising power of finance rather than an ethical transformation instrument. Nabil et al. [25] (who discuss green finance in Morocco) and Nabriski et al. [26] (who evaluate the role of the insurance sector in mitigating climate) all present their own complementary empirical evidence, yet with long-term goals, do not price moral responsibility directly.

III. METHODOLOGY

This research would have a mixed-methods research design to look at the pricing of risk and moral responsibility distribution across the generations of climate finance instruments with special focus on moral risk transfer and intergenerational equity. Because of the normative-empirical research problem, the research methodology incorporates conceptual analysis, comparison of policy, and quantitative financial evaluation. This three-legged strategy is defined by both analytical rigour and the interest in taking into account both the moral and financial aspects of sustainable capital allocation [4].

1. Research Design and Approach

The study is of an exploratory-explanatory design. To begin with, it examines the conceptualisation of intergenerational equity in the theory and practice of climate finance. Second, it describes how these ethical pledges are realised or not realised by particular financial operatives using pricing systems, discount rates and risk-sharing arrangements.

Three reasons are aimed at the choice of the mixed-methods approach:

1. Climate finance stands on the edge of the normative ethics and positive economics by necessitating both qualitative and quantitative investigation.

2. Moral risk transfer cannot be directly observed and has to be deduced on the basis of institutional design, valuation and financial results [5].
3. The relevance of the policy requires moral critique as well as evidence-based knowledge.

2. Conceptual and Theoretical Framework

The analytical perspective of the study conceptualization incorporates three perspectives:

- **Intergenerational justice theory-** is concerned with the fairness of current and future populations.
- **Pricing theory Financial risk:** Particularly Pricing theory Financial risk Pricing theory Financing theory Cost of capital Risk-adjusted returns Discounting.
- **Moral hazard**, moral risk transfer, which studies the change in financial structures in terms of responsibility across time.

By using a comprehensive literature review, the research formulates an analytical framework in which the instruments of climate finance have been connected to the ethical outcomes [6]. Some of the key variables are time horizons, discount rates, the structure of liabilities and distribution of the benefits/ burdens.

3. Qualitative Methodology

3.1 Document and Policy Analysis

The significant climate finance tools and frameworks are reviewed qualitatively, such as:

- Green bonds, sustainability related bonds.
- Emission trading and carbon markets.
- Climate adaptation insurance and catastrophe insurance model.
- Public-private transition financial programs.

They are analysed through thematic coding of policy documents, regulatory guidelines, financial prospectuses and sustainability reports. Codes are concentrated on explicit and implicit mentioning of future generations, long term risk, sharing of responsibility and ethical defense [7].

The summary of data sources and focus of analysis of qualitative data can be stated in Table 1.

Table 1: Qualitative Data Sources and Analytical Objectives

Data Source Type	Examples	Analytical Focus
Policy Frameworks	National climate finance strategies, international climate agreements	Explicit treatment of intergenerational equity
Financial Instruments	Green bond prospectuses, transition finance disclosures	Risk allocation and liability structure
Institutional Reports	Multilateral development banks, climate funds	Time horizons and moral framing

Sustainability Standards	ESG and taxonomy guidelines	Ethical assumptions embedded in metrics

3.2 Normative Ethical Analysis

The normative analysis is used to estimate the extent to which current pricing and allocation practices are based on principles of intergenerational equity. This involves assessing:

- Whether future harms are apportioned highly enough.
- Presumption on whether current beneficiaries incur disproportionate expenses.
- Structural absence of consent and representation of future generations.

This will help the research to get out of the descriptive analysis into the moral assessment.

4. Quantitative Methodology

4.1 Comparative Financial Modelling

The quantitative aspect analyses the sensitivity of various rates of discounting and risk pricing in assessment of long term climate projects. The study uses comparative modelling in the form of scenario based application, and looks at:

- Sensitivity of Net present value (NPV) to changes in discount rate [8].
- Cost internalisation at alternative social discount rates in the long-run.
- Allotment of the results to the present investors and the future populations.

The transparency and replicability are ensured by using the secondary data in the form of the publicly available climate finance projects and financial databases.

4.2 Intergenerational Risk Transfer Indicators

Indicative of the study to operationalise moral risk transfer, the study formulates proxy indicators, such as:

- Lag time between environmental benefits and returns to investment.
- Share of future adjusting expenses not factored into present pricing.
- The externalities that are not considered in financial valuation in the long run.

These pointers enable the articulation of ethical issues in quantifiable financial units.

The significant quantitative variables and their aims are described in Table 2.

Table 2: Quantitative Variables and Measurement Rationale

Variable	**Description**	**Purpose**
Discount Rate (%)	Applied rate in climate project valuation	Measures future value depreciation
Project Time Horizon	Years until full climate impact realised	Captures intergenerational exposure
Risk Premium	Additional return required by investors	Identifies present-biased incentives

Unpriced Externalities	Estimated future climate costs excluded	Proxy for moral risk transfer

5. Data Analysis Techniques

- Qualitative data are subjected to thematic analysis in order to determine emerging patterns of ethics.
- Comparative statistical analysis assesses the valuation difference based on alternative assumptions of pricing.
- Cross-method synthesis combines ethical criticism and financial results, and makes sure that normative and empirical results are consistent [9].

6. Validity, Reliability, and Limitations

Methodological triangulation and transparent choice of the variables are strengthening the validity. The reliability would be guaranteed by relying on publicly available data and recreable modelling assumptions. Nevertheless, the research recognizes the limitations such as the uncertainty in the long-term climatic forecasts and the natural inability to measure moral responsibility.

7. Ethical Considerations

The study does not violate research ethics when it comes to misuse of proprietary data and by explicitly encompassing the ethical implication of financial modelling options [10]. The methodology acknowledges that valuation techniques are of ethical consequence as opposed to using a moral neutral position.

IV. FINDINGS AND DISCUSSION

This part outlines and critically analyzes the main conclusions of the research on climate financing and the transfer of moral risk with a specific focus on the connotations of the current pricing in the context of sustainable capital formation on the aspect of intergenerational equity. The results are organised in a way that qualitative insights are used to form the organisational understanding, quantitative modelling findings are used to compare the results with related literature that had been conducted previously [11]. Combined, they depict methodical present-biases inherent in climate finance instruments and valuation structures.

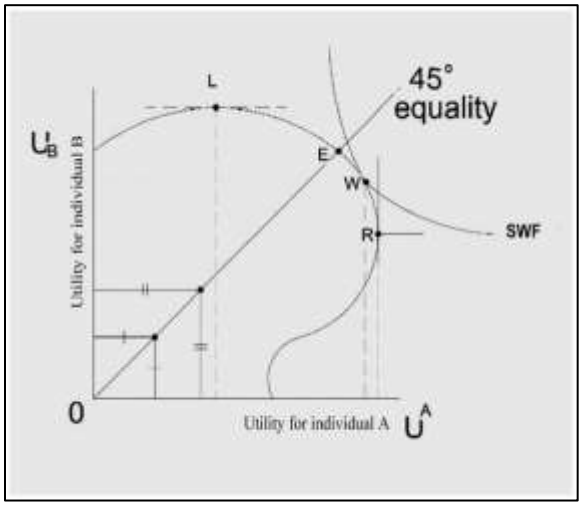

Figure 1: "An Intergenerational Issue: The Equity Issues Due to Public"

1. Moral Risk Transfer in Climate Finance Instruments

The qualitative study of climate finance instruments plays out that moral risk transfer is not an incidental issue but is structurally enshrined. Throughout green bonds, transition finance, and carbon markets and climate insurance mechanisms, the costs of long-term climatic and adaptation costs are not priced now, and present investors and fiscal stability are safeguarded. The policy documents have been discussing long-term sustainability often but present few measures of implementing long term accountability [12]. The future generations are actually considered as the residual risk-bearers, that is, they will carry with them the cost of environmental degradation, cost of adaptation, and systemic instability which will not be fully reflected in the present price.

Table 1 summarises the way in which various climate instruments finance instruments distribute financial and moral risk with a time value of money.

Table 1: Moral Risk Allocation Across Climate Finance Instruments

Instrument Type	**Short-Term Investor Risk**	**Long-Term Societal Risk**	**Degree of Moral Risk Transfer**
Green Bonds	Low	High	High
Transition Finance	Medium	High	High
Carbon Markets	Low–Medium	Medium–High	Medium
Climate Insurance	Low	Very High	Very High
Public Climate Funds	Medium	Medium	Moderate

Finding: Instruments that have high market orientation have the highest moral risk transfer since ethical responsibility is second to stability in the capital market.

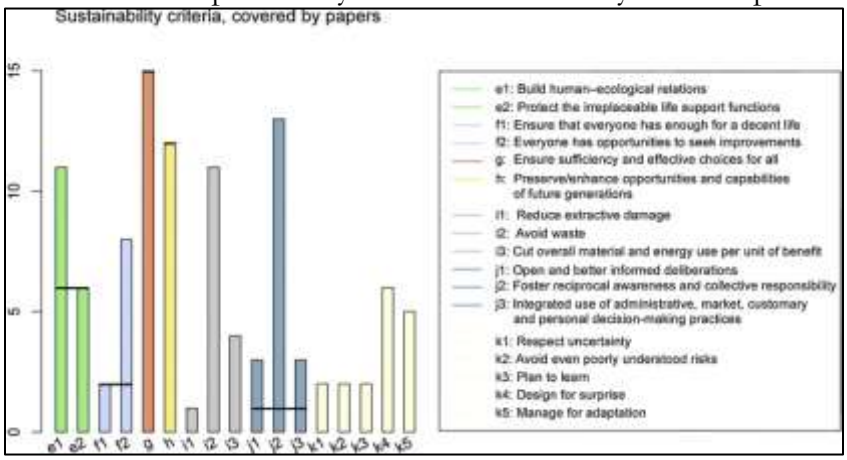

Figure 2: "Intragenerational Equity"

2. Discounting and Future Welfare Devaluation

The selection of discount rate proves to be the most significant source of intergenerational inequity through quantitative modeling. In the case of using market-based discount rates (68), the climate damages above 3040 years are just about to be completely discounted out of current value [13]. Conversely, smaller social discount rates have a substantial impact on the desirability of the project and cost allocation.

Table 2 shows how climate projects of long term are affected by various discount rates.

Table 2: Impact of Discount Rates on Climate Project Valuation (Illustrative)

Discount Rate	Project NPV (USD million)	% of Future Damages Priced
8% (Market)	+120	18%
6%	+75	29%
4%	+20	46%
2% (Social)	−60	71%
1% (Ethical)	−140	89%

Finding: Discount rates that increase in a systematic way legitimise transfer of moral risk by making the future harms economically negligible.

3. Intergenerational Costs and Benefits Distribution

There is evident asymmetry between the beneficiaries and burden bearers of such a study. The present generation takes the monetary gains, image gains, and lawful gains, leaving the residual environmental threats and financial burdens to the successive generations [14]. Adaptation cost in the long term is hardly provided when investing. This creates a situation of imbalance between generations, which makes sustainability seem economically realistic today since no one knows the expense incurred in the future.

Table 3 illustrates a comparison between the cost and benefits of each generation.

Table 3: Intergenerational Cost–Benefit Distribution

Dimension	Present Generation	Future Generations
Financial Returns	High	None
Climate Risk Exposure	Moderate	Very High
Adaptation Costs	Low	High

Decision-Making Power	Full	None
Compensation Mechanisms	Immediate	Absent

Finding: Climate finance regimes are intergenerational efficiency based not intergenerational justice based, and this supports the idea of ethical displacement.

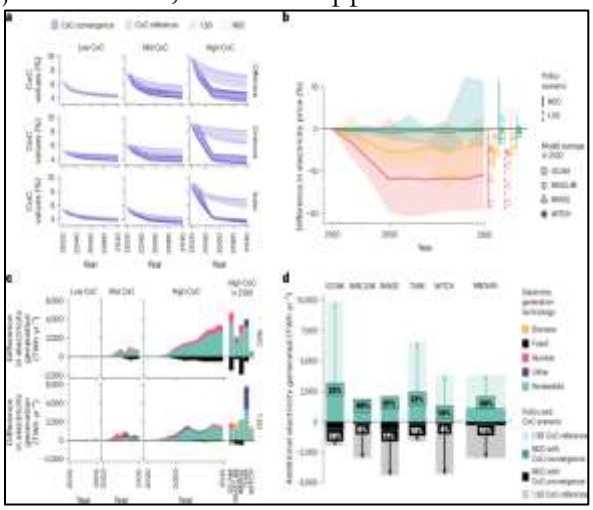

Figure 3: "Reducing the cost of capital to finance the energy transition in developing countries"

4. Comparison with Related Work

This paper surpasses the available literature due to its explicit association of the financial valuation mechanisms with moral responsibility. The main area of previous studies concerns technical efficiency, integration of ESG, or disclosure of the climate risk. Although such contributions recognize the long-term risk, in many cases, they do not go further to challenge ethical ramifications inherent in models of pricing [27].

The results of this study are compared with the prevailing topics in related studies in Table 4.

Table 4: Comparison with Related Research

Research Focus	**Related Work Findings**	**Findings of This Study**
Climate Risk Pricing	Risk underestimation due to uncertainty	Risk underpricing due to ethical discounting
ESG Metrics	Improved transparency	Ethical blindness to future generations
Green Finance	Capital mobilisation success	Moral risk transfer remains unresolved

Policy Analysis	Governance gaps identified	Structural injustice embedded in pricing
Time Horizon	Long-term acknowledged	Long-term systematically devalued

Key Contribution: It is important to note that contrary to the previous research, this study provides arguments that show that moral risk transfer is not a malfunction of data, rather, it is a characteristic of current financial logic [28].

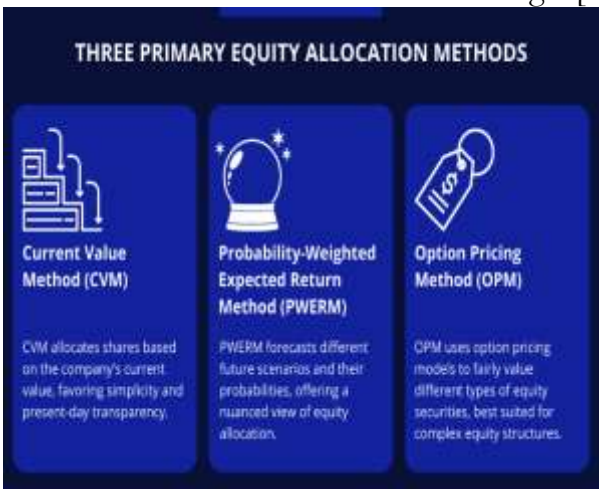

Figure 4: "Equity Allocation"

5. Quantifying Moral Risk Transfer

In order to operationalise the moral risk transfer, the research came up with proxy indicators that relate the ethical issues with quantifiable financial results. Findings suggest that 55-75 percent of total costs expected to arise due to climate changes are not reflected in current financial estimation on the basis of conventional market assumptions.

Table 5 gives an approximate amount of unpriced intergenerational risk.

Table 5: Estimated Unpriced Intergenerational Risk

Project Type	**Total Estimated Climate Cost (USD bn)**	**Cost Priced Today (%)**	**Unpriced Future Cost (%)**
Renewable Infrastructure	1.2	48	52
Coastal Adaptation	0.9	35	65

Urban Transition Projects	1.5	42	58
Climate Insurance Schemes	0.8	24	76
Carbon Offset Programs	1.0	31	69

Finding: High sustainability branding is not associated with ethical wholesomeness in pricing.

6. Discussion: Ethical and Financial Implications

The results indicate that climate finance, in its current form, is a temporal risk-shifting mechanism. Although it hastens capital mobilisation, it does it by instilling moral presuppositions that ensure short term economic stability but do not focus on long term justice [29].

This indicates three important implications:

1. **Ethical Neutrality Is a Myth:** Ethical claims that financial models are ethical-neutral in choice are false.
2. **Sustainability:** Without Justice, Is Comprehensive: Green finance may serve to increase inequality over time and decrease emissions.
3. **The Policy Reforms Need to be based on Pricing Ethics:** Reforms in disclosure and reporting are not enough without reviewing the valuation standards.

The work is based on the idea that climate finance is not presented in the related work as a technical approach to climate issues, but rather a moral economy that actively constructs who carries climate risk [30].

V. CONCLUSION

This study aimed to investigate climate finance not only as a mode of mobilisation of capital, but as an ethical and institutional framework of active influence upon the way in which climate risk and responsibility as well as welfare is allocated across generations. Using a combined qualitative and quantitative approach, the study reveals that existing climate finance regimes structurally underprice long-term environmental damages and incorporate some variation of moral risk transfer that favor the status quo of economic stability to the generational injustice. There were new financial instruments; green bonds, transition finance, carbon markets, and climate insurance which were indicated to internalise the short run investor risk whilst externalising a high proportion of the climate related costs to future populations who are neither represented nor compensated through existing decision making frameworks. The results also indicate that the core of the process of devaluation of future welfare is composed of pricing of risk on a market-based model and discounting. The combination of high discount rates, short project time horizon and incomplete provisioning towards adaptation costs makes long-run climate damages economically invisible regardless of the ethical and societal implications. Unlike much of the available literature, which is based on efficiency, disclosure, or governance deficiencies, this study shows that such a phenomenon as moral risk transfer is not an outskirt aspect of modern sustainable finance, but rather a system element. The study

contributes to the conceptualization of climate finance as an area of moral consequence by directing the connections between the theory of financial valuation and the theory of ethics. It claims that when justice is not considered over the span of time, sustainability claims are undermined. The study reports that the meaningful climate action entails redefining the pricing of capital, the distribution of risks, and how the future generations are implicitly ruled by the current financial choices. Sustainable capital allocation without instilling intergenerational equity in its heart is thus a process that inherently passes the responsibility instead of addressing the climate crisis.

Reference

[1] Ali Yassin, S.A. & Abukar, H.N. 2026, "Exploring the Role of Environmental Knowledge, Awareness, and Organizational Behavior in Driving Sustainability Performance and Decision-Making: Evidence from Somali Business Organizations", International Review of Management and Marketing, vol. 16, no. 1, pp. 325-340.
[2] As-sya'bani, J.A., Abbas, M.Z., Alzobaer, A. & Herena, T. 2025, "Assessing Global Responsibility: Comparative Analysis of Fairness in Energy Transition Between Developing and Developed Countries", Sustainability, vol. 17, no. 16, pp. 7470.
[3] Bae, S.M., Md Abdul, K.M., Md Harun, U.R. & Jong, D.K. 2022, "Determinants of climate financing and the moderating effect of politics: evidence from Bangladesh", Sustainability Accounting, Management and Policy Journal, vol. 13, no. 1, pp. 247-272.
[4] Chamon, M., Klok, E., Thakoor, V. & Zettelmeyer, J. 2024, "An Economic Analysis of Debt-for-Climate Swaps", IMF Economic Review, vol. 72, no. 2, pp. 918-939.
[5] Chukwudum, Q.C., Anyaele, D.O., Godwin, U., Stein, P.J., S. & Stein, M.A. 2025, "Disability, Perceptions of Climate Change Impacts, and Inclusive Climate Action Priorities in Abia State Nigeria", Sustainability, vol. 17, no. 20, pp. 9229.
[6] Coldrey, O., Lant, P. & Ashworth, P. 2025, "The case for a clean cooking green bank", Green Finance, vol. 7, no. 2, pp. 381-405.
[7] Cristian Camilo Fernández Lopera, Mendes, J.M., Barata, E.J. & Trejo-Rangel, M. 2024, "Community and governmental perspectives on climate disaster risk finance instruments in Colombia", Disaster Prevention and Management, vol. 33, no. 2, pp. 114-130.
[8] Donger, E., Bhatia, A., Pegram, J. & Kelly, O. 2025, "Inclusion of children and youth in the Intergovernmental Panel on Climate Change Assessment Reports (AR1-AR6)", Nature Communications, vol. 16, no. 1, pp. 6159.
[9] Favero, F. & Hinkel, J. 2024, "Key Innovations in Financing Nature-Based Solutions for Coastal Adaptation", Climate, vol. 12, no. 4, pp. 53.
[10] Gaikwad, N., Genovese, F. & Tingley, D. 2025, "Climate Action from Abroad: Assessing Mass Support for Cross-Border Climate Transfers", International Organization, vol. 79, no. 1, pp. 146-172.
[11] Ganti, G., Gidden, M.J., Smith, C.J., Fyson, C., Nauels, A., Riahi, K. & Carl-Friedrich Schleußner 2023, "Uncompensated claims to fair emission space risk putting Paris Agreement goals out of reach", Environmental Research Letters, vol. 18, no. 2, pp. 024040.
[12] Gil, R., Morillas, C., Traub, J., Jacobo, F., Martinez, S. & Alvarez, S. 2025, "Beyond Production-Based Accounting: A Comparative SWOT Analysis of GHG Inventory Frameworks and Their Policy Implications", Climate, vol. 13, no. 12, pp. 240.
[13] Gorelick, J., Cara, E. & Kavoo, G. 2024, "The Fallacy of Green Municipal Bonds in Developing Countries", World, vol. 5, no. 4, pp. 929.

[14] Güneş, H., Hamis Miraji, A.S., Karadağ, H. & Şit, M. 2023, "Global Energy Transformation and the Impacts of Systematic Energy Change Policy on Climate Change Mitigation", Sustainability, vol. 15, no. 19, pp. 14298.
[15] Imen, J. 2025, "The Blue Finance Frontier: Mapping Sustainability, Innovation, and Resilience in Ocean Investment Research", Sustainability, vol. 17, no. 23, pp. 10751.
[16] Jalil, S. 2025, "Toward an International Grundnorm for Climate Change: Ensuring Sustainability Away from the Traditional Notion of Security", Sustainability, vol. 17, no. 3, pp. 1034.
[17] Kabir, L.S., Mingaleva, Z.A. & Rakov, I.D. 2025, "Technological modernization of the national economy as an indicator of green finance: Data analysis on the example of Russia", Green Finance, vol. 7, no. 1, pp. 146-174.
[18] Ke, P., Muhammad, M., Jifan, R. & Mariem, M. 2025, "Decoding the Dynamics of Sustainable Finance: Spillover, Risk, and Connectivity Through a Bibliometric Lens", International Journal of Financial Studies, vol. 13, no. 2, pp. 85.
[19] Krogmann, D. 2025, "Liberal environmentalism and climate change in the polycrisis", Global Sustainability, vol. 8.
[20] Kroll, M. & Kühne, K. 2024, "“Climate Bailout”: a new tool for central banks to limit the financial risk resulting from climate change", International Environmental Agreements : Politics, Law and Economics, vol. 24, no. 1, pp. 217-232.
[21] Lavell, A. 2025, "Advances and challenges in DRR investment and financing: an analysis in three parts – Part III. Section 3: Expert contributions to understanding present challenges for DRR and the pathways taken in the past – a synthesis", Disaster Prevention and Management, vol. 34, no. 5, pp. 605.
[22] Liritzis, I. 2025, "Thoughts on Repeated Past Major Climatic Events *", Cadmus, vol. 5, no. 5, pp. 244-257.
[23] MOHANTY, R. 2025, "Need For Fairness In Climate Change Negotiations: A Third World Perspective", Asian Journal of International Law, vol. 15, no. 1, pp. 157-189.
[24] Morgan, W.R. 2023, "Finance Must Be Defended: Cybernetics, Neoliberalism and Environmental, Social, and Governance (ESG)", Sustainability, vol. 15, no. 4, pp. 3707.
[25] Nabil, D., Soufiyan, B., Abdellah, O. & Ayoub, M. 2024, "THE ROLE OF GREEN FINANCE IN HARMONIZING ECONOMIC AND ENVIRONMENTAL GOALS: A MOROCCAN PERSPECTIVE", Revista de Gestão Social e Ambiental, vol. 18, no. 12, pp. 1-23.
[26] Nabriski, M., Palatnik, R.R. & Price, C. 2025, "Insuring the future - the insurance industry’s role in climate change mitigation", Humanities & Social Sciences Communications, vol. 12, no. 1, pp. 1172.
[27] Pavel, T. & Amina, A. 2025, "The Analysis of Goals, Results, and Trends in Global Climate Policy Through the Lens of Regulatory Documents and Macroeconomics", Sustainability, vol. 17, no. 10, pp. 4532.
[28] Pereira, L.M., Smith, S.R., Gifford, L., Newell, P., Villasante, S., Achieng, T., Castro, A., Constantino, S.M., Powell, T., Ghadiali, A., Smith, B., Vogel, C. & Zimm, C. 2025, "Beyond tipping points: risks, equity, and the ethics of intervention", Earth System Dynamics, vol. 16, no. 4, pp. 1267-1285.
[29] Perkiss, S. 2024, "Climate apartheid: the failures of accountability and climate justice", Accounting, Auditing & Accountability Journal, vol. 37, no. 7, pp. 1761-1794.
[30] Purkayastha, D. & Sarkar, R. 2021, "Getting Financial Markets to Work for Climate Finance", Journal of Structured Finance, vol. 27, no. 2, pp. 27-41.