

Curriculum Vitae

Prof. Dr. Jan Christoph Steckel

- March 2025 -

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CURRENT POSITION

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| SINCE 2025 | WORKING GROUP LEAD “CLIMATE POLICY AND DEVELOPMENT”
POTSDAM INSTITUTE FOR CLIMATE IMPACT RESEARCH |
| SINCE 2021 | PROFESSOR “CLIMATE AND DEVELOPMENT ECONOMICS”
Brandenburg University of Technology, Cottbus-Senftenberg |

PROFESSIONAL EXPERIENCE

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| 2022 - 2023 | Sustainable Development Guest Professor
School of Business, Economics and Law, University of Gothenburg. |
| 2014 - 2024 | Working Group Lead “Climate and Development”
Mercator Research Institute on Global Commons and Climate Change (50% until 2019) |
| 2012 - 2018 | Post-Doctoral Researcher
“Principal Investigator” on Macroeconomic Sustainability Assessment, DFG Collaborative Research Center 1026 (Sustainable Manufacturing)
Chair Economics of Climate Change, Prof. Dr. Ottmar Edenhofer, Technische Universität Berlin (<i>Berlin Institute of Technology</i>) (50%) |
| 2012 – 2013 | Post-Doctoral Researcher
Potsdam Institute for Climate Impact Research (50%) |
| 2009 | Guest Researcher
Research Center for International Environmental Policy (RCIEP)
Tsinghua University, Beijing (September – November) |
| 2008 – 2012 | Doctoral Researcher
Working Group Policy Instruments, Research Domain III (Sustainable Solutions)
Potsdam Institute for Climate Impact Research |

EDUCATION

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| 2012 | PhD (<i>Dr. rer. oec.</i>) in Economics
Technische Universität Berlin (Berlin Institute of Technology)
Title: “Developing Countries in the Context of Climate Change Mitigation and Energy System Transformation” (<i>Summa cum laude</i>) |
| 2002 - 2008 | Master in Industrial Engineering 2008 (“<i>Diplom Wirtschaftsingenieur</i>”)
University of Flensburg, University of Southern Denmark |
| 2002 – 2008 | Study abroad and internships
Help e.V., Nias Indonesia (Disaster Relief), Canadian Solar Industries Association, Ottawa, Canada (Internship), David Suzuki Foundation, Vancouver, Canada (Research Visit), École Supérieure de Commerce, Rennes, France (Study abroad) |

MEMBERSHIPS IN ADVISORY BODIES AND SCIENTIFIC ASSOCIATIONS

Boards	Programme Co-Chair “Emissions Pricing for Development” Environment for Development Initiative; Member Advisory Group “Just Transitions” to the Federal Ministry for Economic Cooperation and Development; Member of the Task Force on “Just Transitions” in the Power Past Coal Alliance; Advisory board member COREFAKTEN (Questions of social acceptance of a reform of energy levies, taxes and levies with CO2 pricing); Member of Energy Task Force, Climate Change Initiative for the Eastern Mediterranean and Middle East; Member of Local Organizing Committee, EAERE Annual Conference since 2020; Steering Committee Member Research Network on Energy Workforce Transitions (ReNEWT)
Memberships	European Association of Environmental and Resource Economists (EAERE), German Economic Association (VfS), European Economic Association, Green Fiscal Policy Network, Sustainable Energy Transition Initiative (SETI), Duke University Energy Access Programme

GRANTS

2025 – 2027	TRANSFORM funded by German Federal Ministry for Economic Development and Cooperation. Role: Principal Investigator (€ 2.1 M in total)
2024 – 2026	Die Geopolitik der mit dem Klimawandel verbundenen Risiken und Transformationen (GeoClimRisk), funded by German Foreign Office: Role: Work Package Lead (€1.8 M in total, approximately € 240,000 for WP)
2024	Can revenue recycling make fossil fuel subsidy reform and carbon tax socially acceptable? A survey experiment in Colombia, funded by EfD / SIDA. Role: Principal Investigator (USD 50,000).
2022 – 2026	Advancing the understanding of challenges, policy options and measures to achieve a JUST EU energy transition (AdJUST) funded by EU Commission. Role: Project Lead at MCC (€427,000 for MCC)
2022 – 2026	ENABLING AND LEVERAGING CLIMATE ACTION TOWARDS NET-ZERO EMISSIONS (ELEVATE) funded by EU Commission. Role: Project Lead at MCC (€ 358,750 for MCC)
2022 – 2025	Förderung sozial akzeptierter CO2 Bepreisung funded by Deutsche Gesellschaft für internationale Zusammenarbeit und Entwicklung (GIZ). Role: Project Lead (€ 304,370 for MCC)
2021 – 2023	Carbon Clubs funded by European Climate Foundation (ECF). Role: Project Lead (€ 65,000 for MCC)
2022 – 2023	Guest Professorship at University of Gothenburg funded by Adlerbertska forskningsstiftelsen (SEK 1,000,000, individual grant).
2021 – 2023	Low Carbon Transition and Gender Equity in the Global South funded by IDRC. Role: Project Lead at MCC (SEK 282,836 for MCC)
2021 – 2022	Coal, Climate Change and Covid-19 (CoCCCo) funded by Volkswagen Foundation. Role: Project Lead (€107,500 for MCC)
2020 – 2023	Resource Mobilization for Sustainable Development in Indonesia funded by German Federal Ministry for Economic Cooperation and Development (BMZ) through GIZ; Role: Project lead (€ 419,000 for MCC)

2019 – 2022	Mitigation Policies in a Globalized and Developing World: The Role of Structural Change and Distributional Effects (ROCAHDE) funded by German Federal Ministry of Education and Research (BMBF) (€ 186,250 for MCC)
2018 – 2022	The Political Economy of a Global Coal Phase Out (PEGASOS) funded by German Federal Ministry of Education and Research (BMBF) Role. Co-Lead (€ 448,200 for MCC)
2018 – 2021	De-Carbonizing Economic Development in Sub-Sahara Africa (DECADE) funded by German Federal Ministry of Education and Research (BMBF); Role: Project lead (€ 350,500 for MCC)
2017 – 2019	Strategic Scenario Analysis (START) funded by German Federal Ministry of Education and Research (BMBF); Role: Project co-lead at MCC (€ 493,400 for MCC)
2017 - 2019	Pathways and Entry Points to limit global warming to 1.5°C (PEP1p5) funded by German Federal Ministry of Education and Research (BMBF); Role: Project lead at MCC (€ 241,900 for MCC)
2015 - 2016	Carbon Pricing for Sustainable Development (CAPRI) funded by GIZ and Federal Ministry for Economic Cooperation and Development (BMZ); Role: Project lead at MCC
2012 - 2017	Collaborative Research Center 1026 (“Sustainable Manufacturing”) funded by “Deutsche Forschungsgemeinschaft (DFG)”; Role: Principal investigator “Macroeconomic Sustainability Assessment”
2010 – 2013	Entwicklung und Dekarbonisierung (EntDekEn) (Development and Decarbonization), in cooperation with Universität Göttingen (Stephan Klasen) and GIGA Hamburg (Jann Lay), funded by “Bundesministerium für Bildung und Forschung (BMBF)”; Role: Co-Project lead at PIK

TEACHING AND SUPERVISION

1. Teaching

Since 2024	The Political Economy of Coal Seminar, BTU Cottbus, Bachelor level
Since 2023	Economic and Social Instruments of Environmental and Resource Management Lecture, BTU Cottbus, Bachelor level
2015 - 2016	Climate and Development - Challenges of Climate Change Mitigation and Poverty Eradication, Seminar TU Berlin, Master-level, w/ Michael Jakob & Gregor Schwerhoff
2010 - 2014	The Economics of Climate Change , TU Berlin, Lecture & Exercise, Master-level, w/ Ottmar Edenhofer & Robert Marschinski
2010	Low Carbon Development , TU Berlin, Seminar, Master-level, w/ Michael Jakob
2009	Klimaverhandlungen – Eine Simulation , Sommerakademie der Heinrich-Böll Stiftung (w/ Falko Ueckerdt)

2. Supervision of PhD theses (main advisor)

Ongoing

Ira Dorband (Economics, since 2016, interrupted): Distributional effects of carbon pricing in developing countries

Thomas Klug (Political Science, since 2022): Political Economy of Climate Policy in Low- and Middle Income Countries (preliminary title)

Farah Mohammadzadeh Valencia (Political Science, since 2021): Acceptability of carbon pricing in Latin America

Finalized

Raavi Aggarwal (Economics, 2025): Carbon Pricing in Developing Countries (TU Berlin, *magna cum laude*)

Leonard Missbach (Economics, 2025): Industrialization, Structural Change and Climate Policy (TU Berlin, *summa cum laude*)

Jose Antonio Ordoñez (Economics, 2024): Political economy of climate policy in South and South East Asia (BTU Cottbus, *magna cum laude*)

Niccolò Manych (Political Science, 2023): Political economy of coal phase out (TU Berlin, *magna cum laude*)

Lorenzo Montrone (Economics, 2023): Structural economic change, poverty eradication and distributional effects of climate change mitigation (TU Berlin, *magna cum laude*)

Nils Ohlendorf (Economics, 2022): Political economy of climate policy (TU Berlin, *summa cum laude*)

Hauke Ward (Economics, 2017): The Role of Efficient Technology for Achieving Climate Change Mitigation and Development (TU Berlin, *magna cum laude*)

Alexander Radebach (TU Berlin, Economics, 2012 – 2017, not finalized)

3. Supervision of Master theses (since 2015)

Lisa-Marie Bischer (TU Berlin, 2016), Econometric Analysis of Interconnectivity between West African Food Markets.

Ira Dorband (FU Berlin, 2016), Double progressivity of infrastructure development through carbon pricing - Insights from Nigeria

Silvia Forin (FU Berlin, 2015). The effect of industry delocalization on global energy use: A global sectoral perspective

Anne Gläser (U Copenhagen, 2016). Food Security in Sub-Saharan Africa: Vulnerability in the Context of Mounting Pressure on Land

Fabian Hafner (Hertie School of Governance, 2018). Distributional effects of coal phase out policies in Indonesia, India and Turkey.

Mariko Landström (Aalto U, 2017), Capabilities, structural change and climate policy.

Niccolò Manych (TU Berlin, 2019), Analysing Financial Flows for the Development of Coal-Fired Power Plants

Linus Mehl (Science Po Paris, 2025), Stepping down and up the energy ladder - Impacts of LPG subsidy removal on cooking fuel choice in Ghana.

Leonard Missbach (TU Berlin, 2020), Appliance uptake across low and middle income countries - evidence from micro household data

Lorenzo Montrone (U Roma III, 2018). Coal Investments and Economic Development – An econometric analysis.

Lennard Naumann (FU Berlin, 2023). An econometric analysis of the nexus between mining and green attitudes.

Nils Ohlendorf (FU Berlin, 2018), Distributional Impacts of Climate Mitigation Policies – A Meta Analysis.

Daffne Pilger Vaca (TU Berlin, 2016). Differences and determinants of the carbon footprint of households – a global, longitudinal analysis.

Leon Podehl (TU Berlin, 2022), Coal investments and economic development – Evidence from India

Lina Maria Puerto Chaves (TU Berlin, 2022), Political economy of coal in Colombia – A case study

Giacomo Raederscheidt (U Potsdam, 2024), The impact of South Africa's JETP on coal discourses. Applying text-as-data methods to news media

Tom Schulze (TU&FU Berlin, 2016), Structural change in developing economies: A sectorally disaggregated analysis.

PUBLICATIONS

1. Edited Books

Jakob, M., & Steckel, J. C. (Eds.). (2022). *The Political Economy of Coal: Obstacles to Clean Energy Transitions*. London, New York: Routledge.

2. Peer Reviewed Journal Publications

2024

Aggarwal, R., Ayhan, S. H., Jakob, M., & Steckel, J. C. (2024). Carbon pricing and household welfare: evidence from Uganda. *Environment and Development Economics*, 1-25.

Valencia, F. M., Mohren, C., Ramakrishnan, A., Merchert, M., Minx, J., & Steckel, J. (2024). Public support for carbon pricing policies and different revenue recycling options: a systematic review and meta-analysis of the survey literature. *npj Climate Action*

Döbbeling-Hildebrandt, N., Miersch, K., Khanna, T. M., Bachelet, M., Bruns, S. B., Callaghan, M., ... Steckel, J.C. & Minx, J. C. (2024). Systematic review and meta-analysis of ex-post evaluations on the effectiveness of carbon pricing. *Nature Communications*, 15(1), 4147.

Leimbach, M., Huebler, M., Mahlkow, H., Montrone, L., Bukin, E., Felbermayr, G., ... & Steckel, J. C. (2024). Macroeconomic structural change likely increases inequality in India more than climate policy. *Environmental Research Letters*, 19(4), 044070.

Minx, J. C., et al. . (2024). Coal transitions–Part 2: Phase-out dynamics in global long-term mitigation scenarios. *Environmental Research Letters*.

Missbach, L., Steckel, J. C., & Vogt-Schilb, A. (2024). Cash transfers in the context of carbon pricing reforms in Latin America and the Caribbean. *World Development*, 173, 106406.

2023

Ordóñez, J. A., Jakob, M., Steckel, J. C., & Ward, H. (2023). India's just energy transition: Political economy challenges across states and regions. *Energy Policy*, 179, 113621.

Manych, N., Müller-Hansen, F., & Steckel, J. C. (2023). The political economy of coal across 12 countries: Analysing qualitative interviews with topic models. *Energy Research & Social Science*, 101, 103137.

Missbach, L., Steckel, J. C., & Ward, H. (2023). Assessing distributional effects of carbon pricing in Israel. *Energy Policy*, 180, 113672.

Montrone, L., Steckel, J.C. & Nemet, G. (2023). Investment in new coal-fired power plants after the COVID-19 pandemic: experts expect 170–270 GW of new coal. *Environmental Research Letters* 18 054013

2022

Dorband, I. I., Jakob, M., Steckel, J. C., & Ward, H. (2022). Double progressivity of infrastructure financing through carbon pricing-insights from Nigeria. *World Development Sustainability*, 100011.

Montrone, L., Steckel, J.C. & Kalkuhl, M. (2022): The type of power capacity matters for economic development - Evidence from a global panel. *Resource and Energy Economics*, 69, 101313

Mulugetta, Y. at al. (2022). Africa needs context-relevant evidence to shape its clean energy future. *Nature Energy*, 1-8.

Ohlendorf, N., Jakob, M., & Steckel, J. C. (2022). The political economy of coal phase-out: Exploring the actors, objectives, and contextual factors shaping policies in eight major coal countries. *Energy Research & Social Science*, 90, 102590.

Ohlendorf, N., Flachsland, C., Nemet, G. F., & Steckel, J. C. (2022). Carbon price floors and low-carbon investment: A survey of German firms. *Energy Policy*, 169, 113187.

Steckel, J. C., & Jakob, M. (2022). To end coal, adapt to regional realities. *Nature*, 607(7917), 29-31.

2021

Diluiso, F., Walk, P., Manych, N., Cerutti, N., Chipiga, V., Workman, A., ... Jan C. Steckel, Sebastian Thomas, John Wiseman & Minx, J. C. (2021). Coal transitions—Part 1: A systematic map and review of case study learnings from regional, national, and local coal phase-out experiences. *Environmental Research Letters*, 16(11), 113003.

Jakob, M., Ward, H., & Steckel, J. C. (2021). Sharing responsibility for trade-related emissions based on economic benefits. *Global Environmental Change*, 66, 102207.

Manych, N., Steckel, J.C. & M. Jakob (2021). Finance-based accounting of coal emissions. *Environmental Research Letters*, 16 (4), 044028

Ohlendorf, N., Jakob, M., Minx, J. C., Schröder, C., & Steckel, J. C. (2021). Distributional Impacts of Carbon Pricing: A Meta-Analysis. *Environmental and Resource Economics*, 78(1), 1-42.

Ordonez, J.A., M. Jakob, J.C. Steckel, A. Fünfgeld (2021). Coal, power, and coal-powered politics in Indonesia. *Environmental Science & Policy*, 123 (9), 44-57

Steckel, J. C., Dorband, I. I., Montrone, L., Ward, H., Missbach, L., Hafner, F., ... & Renner, S. (2021). Distributional impacts of carbon pricing in developing Asia. *Nature Sustainability*, 4(11), 1005-1014.

Steckel, J. C., & Jakob, M. (2021). The political economy of coal: Lessons learnt from 15 country case studies. *World Development Perspectives*, 24, 100368.

2020

Dorband, I. I., Jakob, M., & Steckel, J. C. (2020). Unraveling the political economy of coal: Insights from Vietnam. *Energy Policy*, 147, 111860.

Edenhofer, O., Kalkuhl, M., Requate, T., & Steckel, J. C. (2020). How assets get stranded: The impact of climate policy on capital and fossil fuel owners Introduction to the JEEM Special Section on Climate Policy and Political Economy. *Journal of Environmental Economics and Management*, 100: 102300

Jakob, M., Flachsland, C., Steckel, J. C., & Urpelainen, J. (2020). Actors, objectives, context: A framework of the political economy of energy and climate policy applied to India, Indonesia, and Vietnam. *Energy Research & Social Science*, 70, 101775.

- Jakob, M., Lamb, W. F., Steckel, J. C., Flachslund, C., & Edenhofer, O. (2020). Understanding different perspectives on economic growth and climate policy. *Wiley Interdisciplinary Reviews: Climate Change*, 11(6), e677.
- Jakob, M., Steckel, J. C., Jotzo, F., Sovacool, B. K., Cornelsen, L., Chandra, R., Edenhofer, O., Holden, C., Löschel, A., Nace, T., Suedekum, J. & Robins, N. (2020). The future of coal in a carbon-constrained climate. *Nature Climate Change*, 10, 704-707.
- Jeuland, M., Ohlendorf, N., Saparapa, R., & Steckel, J. C. (2020). Climate implications of electrification projects in the developing world: a systematic review. *Environmental Research Letters*, 15(10), 103010.
- Kalkuhl, M., Steckel, J. C., & Edenhofer, O. (2020). All or nothing: Climate policy when assets can become stranded. *Journal of Environmental Economics and Management*, 100: 102214
- Steckel, J.C., Hilaire, J., Jakob, M., Edenhofer, O. (2020). Coal and Carbonization in Sub-Saharan Africa. *Nature Climate Change*, 10(1), 83-88
- Wenz, L., Weddige, U., Jakob, M., Steckel, J.C. (2020). Road to glory or road to hell: Global road access and climate change mitigation. *Environmental Research Letters*, 15 (7), 075010.

2019

- Creutzig, F., d'Amour, C. B., Weddige, U., Fuss, S., Beringer, T., Gläser, A., Kalkuhl, M., Steckel, J.C., Radebach, A. & Edenhofer, O. (2019). Assessing human and environmental pressures of global land-use change 2000–2010. *Global Sustainability*, 2.
- Dorband, I. I., Jakob, M., Kalkuhl, M., & Steckel, J. C. (2019). Poverty and distributional effects of carbon pricing in low-and middle-income countries—A global comparative analysis. *World Development*, 115, 246-257.
- Kalkuhl, M., Steckel, J.C., Montrone, L., Jakob, M., Peters, J. & Edenhofer, O. (2019). Successful coal phase-out requires new models of development. *Nature Energy*, 4(11), 897-900
- Ward, H., Steckel, J. C., & Jakob, M. (2019). How Global Climate Policy Could Affect Competitiveness. *Energy Economics*. 84 (S1), 104549

2018

- Edenhofer, O., J.C. Steckel, M. Jakob, C. Bertram (2018). Reports of coal's terminal decline may be exaggerated. *Environmental Research Letters*, 13(2), 024019.
- Forin, S., H. Ward, A. Radebach, J.C. Steckel (2018) The effect of industry delocalization on global energy use: A global sectoral perspective. *Energy Economics*, 70, 233-243
- Franks, M., K. Lessmann, M. Jakob, J.C. Steckel, O. Edenhofer (2018). Mobilizing domestic resources for the Agenda 2030 via carbon pricing. *Nature Sustainability*. 1(7), 350
- Kriegler, E., C. Bertram, T. Kuramochi, M. Jakob, M. Pehl, M. Stevanovic, N. Höhne, G. Luderer., J.C. Minx, H. Fekete, J. Hilaire, L. Luna, A. Popp, J.C. Steckel, S. Sterl, A. Woldie Yalew, J.P. Dietrich, O. Edenhofer (2018). Short term policies to keep the door open for Paris climate goals. *Environmental Research Letters*, 13 (7), 074022
- Steckel, J. C., & Jakob, M. (2018). The role of financing cost and de-risking strategies for clean energy investment. *International Economics*. 155, 19 – 28
- Ward, H., Wenz, L., Steckel, J. C., & Minx, J. C. (2018). Truncation Error Estimates in Process Life Cycle Assessment Using Input-Output Analysis. *Journal of Industrial Ecology*. 22(5), 1080-1091.

2017

- Jakob, M., D. Kübler, J.C. Steckel, R. van Veldhuizen (2017) Clean up your own mess: An experimental study of moral responsibility and efficiency. *Journal of Public Economics*, 155, 138-146.
- Kornek, U., J.C. Steckel, K. Lessmann, O. Edenhofer (2017): The Climate Rent Curse: New Challenges for Burden Sharing. *International Environmental Agreements: Politics, Law and Economics*, 17 (6), 855–882
- Nemet, G. F., Jakob, M., Steckel, J. C., & Edenhofer, O. (2017). Addressing policy credibility problems for low-carbon investment. *Global Environmental Change*, 42, 47-57.
- Steckel, JC, Jakob, M, Flachsland, C., Kornek, U., Lessmann, K., Edenhofer, O. (2017). From climate finance toward sustainable development finance. *WIREs Climate Change*, 8 (1), e437, doi: 10.1002/wcc.437
- Steckel, J. C., Rao, N. D., & Jakob, M. (2017). Access to infrastructure services: Global trends and drivers. *Utilities Policy*, 45, 109-117
- Ward, H., Burger, M., Chang, Y. J., Fürstmann, P., Neugebauer, S., Radebach, A., ... & Steckel, JC (2017). Assessing carbon dioxide emission reduction potentials of improved manufacturing processes using multiregional input output frameworks. *Journal of Cleaner Production*, 163, 154-165
- Ward, H., A. Radebach, I. Vierhaus, A. Fügenschuh, J.C. Steckel (2017). Reducing global CO2 emissions with the technologies we have. *Resource and Energy Economics*, 49, 201-217

2016

- Bren d'Amour, C., L. Wenz, M. Kalkuhl, JC Steckel, & Creutzig, F. (2016). Teleconnected food supply shocks. *Environmental Research Letters*, 11(3), 035007.
- Hirth, L. & Steckel, JC (2016): The role of capital costs in decarbonizing the electricity sector. *Environmental Research Letters*, 11 (11), 114010
- Jakob, M. & Steckel, JC (2016). Implications of Climate Change Mitigation for Sustainable Development. *Environmental Research Letters*, 11 (10), 114010.
- Schueler, V., Fuss, S., Steckel, JC., Weddige, U., & Beringer, T. (2016). Productivity ranges of sustainable biomass potentials from non-agricultural land. *Environmental Research Letters*, 11(7), 074026.

2010 - 2015

- Steckel, JC, O. Edenhofer, M. Jakob (2015): Drivers for the renaissance of coal. *Proceedings of the National Academy of Sciences*, 112 (29), pp. E3775-E3781
- Wenz, L., S.N. Willner, A. Radebach, R. Bierkandt, JC Steckel, A. Levermann (2015): Regional and sectoral disaggregation of multi-regional input-output tables – a flexible algorithm. *Economic Systems Research* 27 (2), pp. 194-212
- Zimmer, A. M. Jakob, JC Steckel (2015): What motivates Vietnam to strive for a low-carbon economy? – An explorative case study on the drivers of climate policy in a developing country. *Energy for Sustainable Development* 24, pp. 19 – 32
- Edenhofer, O., M. Jakob., F. Creutzig, C. Flachsland, S. Fuss, M. Kowarsch, K. Lessmann, L. Mattauch, J. Siegmeier, JC Steckel (2015). Closing the emission price gap. *Global Environmental Change* 31, pp. 132-143.
- Jakob, M., JC Steckel, C. Flachsland, L. Baumstark (2015): Climate finance for developing country mitigation: blessing or curse? *Climate and Development*, 7 (1), pp. 1 - 15
- Edenhofer, O., JC Steckel, M. Jakob (2014): Does Environmental Sustainability Contradict Prosperity? *Global Policy* 5 (s1), pp. 15 - 20
- Jakob, M., JC Steckel, S. Klasen, J. Lay, N. Grunewald, I. Martínez-Zarzoso, S. Renner, O. Edenhofer (2014): Feasible mitigation actions in developing countries. *Nature Climate Change* 5 (11), pp. 961 - 968

- Jakob, M. and JC Steckel (2014): How climate change mitigation could harm development in poor countries. *WIREs Climate Change* 5 (2), 161 – 168
- Jakob, M., JC Steckel, O. Edenhofer (2014): Consumption-Versus Production-Based Emission Policies. *Annual Review of Resource Economics* 6 (1), pp. 297 - 318
- Steckel, JC, RJ Brecha, M. Jakob, J. Strefler, G. Luderer (2013): Development without energy? Assessing future scenarios of energy consumption in developing countries. *Ecological Economics*, 90, pp. 53 – 67
- Hübler, M. & JC Steckel (2012): Economic Growth, Decarbonization, and International Transfers. *Climate and Development*, 4 (2), pp. 88 – 103
- Jakob, M., Luderer, G., Steckel, JC, Tavoni, M., Monjon, S. (2012): Time to act now? Assessing the costs of delaying climate measures and benefits of early action. *Climatic Change*, 114 (1), pp. 79 - 99
- Luderer, G., Bosetti, V., Jakob, M., Leimbach, M., Steckel, JC, Waisman, H. Edenhofer, O. (2012): The economics of decarbonizing the energy system: Results and insights from the RECIPE model intercomparison. *Climatic Change*, 114 (1), pp. 9 - 37
- Tavoni, M., De Cian, E., Luderer, G., Steckel, JC, Waisman, H. (2012): The value of technology and of its evolution towards a low carbon economy. *Climatic Change*, 114 (1), pp. 39 – 57
- Steckel, JC, M. Jakob, R. Marschinski and G. Luderer (2011): From carbonization to decarbonization? - Past trends and future scenarios for China's CO₂ emissions. *Energy Policy*, 39 (6), pp. 3443-3455
- Steckel, JC, M. Kalkuhl and R. Marschinski (2010): Should carbon-exporting countries strive for consumption-based accounting in a global cap-and-trade regime? *Climatic Change Letters*, 100 (3), pp. 779 – 786

3. Book chapters and Articles in Working Paper Series

- Ramakrishnan, A., Fischer, C., Steckel, J., Sterner, T. & Lindberg, V. (2024). Emission pricing in developing countries. Encyclopedia of Energy, Natural Resource, and Environmental Economics (2nd edition).
- Missbach, L. & J.C. Steckel (2024). Distributional impacts of climate policy and effective compensation: Evidence from 88 countries. ZBW – Leibniz Information Centre for Economics, Kiel, Hamburg. Available online: <https://hdl.handle.net/10419/296491>
- Ayhan, S., Falchetta, G., & Steckel, J. C. (2022). Evaluating the Impacts of Minigrid Electrification in Sub-Saharan Africa. IZA Discussion Paper No. 15466
- Missbach, L., Steckel, J. C., & Vogt-Schilb, A. (2022). Cash transfers in the context of carbon pricing reforms in Latin America and the Caribbean. IDB Working Paper Series, IDB-WP-01404
- Aggarwal, R., & Steckel, J. (2022). Collective model of firewood consumption, production, and labour supply: Evidence from Malawi.
- Steckel, J. C., Renner, S., & Missbach, L. (2021, September). Distributional Impacts of Carbon Pricing in Low- and Middle-Income Countries. In CESifo Forum (Vol. 22, No. 5, pp. 26-32). Institut für Wirtschaftsforschung (Ifo).
- Aggarwal, R., S. Ayhan, M. Jakob J.C. Steckel (2021). Carbon Pricing and Household Welfare: Evidence from Uganda. Duke Global Working Paper Series No. 38, https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3819959
- Sterner, Thomas, Richard T. Carson, Marc Hafstead, Peter Howard, Sverker Carlsson Jagers, Gunnar Köhlin, Ian Parry, Ryan Rafaty, E. Somanatan, Jan Christoph Steckel, Dale Whittington et al. (2020): Funding Inclusive Green Transition through Greenhouse Gas Pricing. Ifo DICE report 18 (1), 03-08
- Ohlendorf, N., Jakob, M., Minx, J. C., Schröder, C., & Steckel, J. C. (2018). Distributional Impacts of Climate Mitigation Policies-a Meta-Analysis. DIW Berlin Discussion Paper No. 1776

- Michael Jakob, Rafael Soria, Carlos Trinidad, Ottmar Edenhofer, Celine Bak, Daniel Bouille, Daniel Buira, Hernan Carlino, Veronica Gutman, Christian Hübner, Brigitte Knopf, André Lucena, Luan Santos, Andrew Scott, Jan Christoph Steckel, Kanako Tanaka, Adrien Vogt-Schilb, Koichi Yamada. Green fiscal reform for a just energy transition in Latin America (No. 2018-86). Economics Discussion Papers.
- Dorband, I. I., Jakob, M., & Steckel, J. C. (2017). Double Progressivity of Infrastructure Development through Carbon Pricing-Insights from Nigeria. Available online at SSRN 3059138
- Steckel, J.C., G. Schwerhoff, O. Edenhofer (2017): Enabling low-carbon development in poor countries. In: Stark, R. et al. (eds.): Sustainable Manufacturing. Sustainable Production, Life Cycle Engineering and Management. Heidelberg, New York: Springer
- Radebach, A., Steckel, J.C., & Ward, H. (2016). Patterns of Sectoral Structural Change–Empirical Evidence from Similarity Networks. Available at SSRN 2771653.
- Krey V. et al. (2014): Annex II: Metrics & Methodology. In: Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and J.C. Minx (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Edenhofer, O., M. Jakob & JC Steckel (2013): Wohlstand und ökologische Nachhaltigkeit - ein Widerspruch? ifo Schnelldienst, 66 (15), pp. 22 – 26
- Edenhofer, O. & JC Steckel (2012): Die Renaissance der Kohle und Chancen globaler Klimapolitik. Mining + Geo, 3, pp. 336 – 348
- Arvizu et al. (2011): Technical Summary. In: IPCC Special Report on Renewable Energy Sources and Climate Change Mitigation [O. Edenhofer, R. Pichs-Madruga, Y. Sokona, K. Seyboth, P. Matschoss, S. Kadner, T. Zwickel, P. Eickemeier, G. Hansen, S. Schlömer, C. von Stechow (eds.)], Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Sathaye, J. et al. (2011): Renewable Energy in the Context of Sustainable Development. In: IPCC Special Report on Renewable Energy Sources and Climate Change Mitigation [O. Edenhofer, R. Pichs-Madruga, Y. Sokona, K. Seyboth, P. Matschoss, S. Kadner, T. Zwickel, P. Eickemeier, G. Hansen, S. Schlömer, C. von Stechow (eds.)], Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Flachsland, C., G. Luderer, JC Steckel, B. Knopf, O. Edenhofer (2011): International Emissions Trading and the Global Deal. Contribution to the "Research and Forum on Economics of Climate Change - Towards a Low-Carbon Economy in China. Earthscan, ISBN 9781849711746
- Edenhofer, O., B. Knopf, G. Luderer, JC Steckel, T. Bruckner (2010): More heat than light? On the economics of decarbonization. In: Rübbelke, D. (Ed.). Sustainable Energy. London, Routledge Publishers

4. Scientific Policy Advice

- Steckel, J.C., L. Missbach & T. Schiefer (2023). The Carbon Pricing Incidence Calculator. An online tool for 88 countries. Available online at: <https://www.cpic-global.net>
- Bruckner, B., Edenhofer, O., Koch, N., & Steckel, J. (2023). A Regulatory Framework that Would Enable Firms to Compete Internationally without Degrading the Environment. <https://www.global-solutions-initiative.org>
- Flachsland, C., Steckel, J.C. & Michael Jakob (2023). Eckpunkte zur Entwicklung einer Klimaaußenpolitikstrategie Deutschlands. Ariadne Hintergrundpapier.

https://ariadneprojekt.de/media/2023/08/Ariadne-Hintergrund_Klimaaussenpolitik_August2023_final.pdf

- Steckel, J. C., Missbach, L., Ohlendorf, N., Feindt, S., & Kalkuhl, M. (2022). Effects of the Energy Price Crisis on European Households. Mercator Research Institute on Global Commons and Climate Change: https://www.mcc-berlin.net/fileadmin/data/C18_MCC_Publications/2022_MCC_Effects_of_the_energy_price_crisis_on_European_households.pdf
- Steckel, J.C. & L. Missbach (2021): Leaving no one behind. Carbon Pricing in Israel: Distributional Consequences across households. Israel Public Policy Institute and Heinrich Böll Stiftung Israel. <https://www.ippi.org.il/carbon-pricing-effects-israel/>
- Steckel, J.C. & J. Lay (2021): Mitigation Policies in Developing Countries – Recent Evidence and Policy Implications. Policy Panel, PEGNet Conference, 22.3.2021
- Steckel, J.C., M. Jakob, N. Manych, L. Montrone & O. Edenhofer (2020): Kohle und internationale Klimapolitik. Background paper for the Federal Chancellery in preparation for the Petersberg Climate Dialogue 2020.
- Edenhofer, O. Flachsland, C., Arlinghaus, J., Haywood, L., Kalkuhl, M., Koch, N., Kornek, U., Pahle, M., Pietzcker, R., Steckel, J.C., Ward, H. (2018). Eckpunkte einer CO₂-Preisreform in Deutschland. https://www.mcc-berlin.net/fileadmin/data/B2.3_Publications/Working%20Paper/2018_MCC_Working_Paper_1_CO2-Preisreform.pdf
- Jakob, M., Soria, R., Trinidad, C., Edenhofer, O., Bak, C., Bouille, D., ... & Yamada, K. (2018). Green fiscal reform for a just energy transition in Latin America (No. 2018-86). Economics Discussion Papers.
- Mutanga, S., R. Quitzwilg & J.C. Steckel (2017): The G20's role in improving quality of life through sustainable energy and urban infrastructure in Africa. T20 Policy Brief. Available online: <http://www.g20-insights.org/wp-content/uploads/2017/10/g20s-role-improving-quality-life-sustainable-energy-urban-infrastructure-africa-1508154254.pdf>
- Jakob, M. & J.C. Steckel (2016): The Just Energy Transition. Prepared for the International Symposium "A Just Transition for Our Common Home: Energy, Labour and Poverty Eradication". Available online at: http://awsassets.wwf.panda.org/downloads/jakobsteckel_2016_jet.pdf
- Edenhofer, O., J.C. Steckel, M. Jakob (2015): Climate Finance in the Context of Sustainable Development. France Stratégie
- Edenhofer, O., Carraro, C., Hourcade, J.C., Neuhoff, K., Luderer, G., Flachsland, C., Jakob, M., Popp, A., Steckel, J.C., ... & Bauer, N. (2009). The Economics of Decarbonization. Report of the RECIPE project. Potsdam Institute for Climate Impact Research, Potsdam.
- Flachsland, Christian, Edenhofer, Ottmar, Jakob, Michael, Steckel, J.C. (2008). Developing the International Carbon Market. Linking Options for the EU ETS. Report for the planning staff at the Federal Foreign Office.

5. Opinion Pieces and Blogposts

- Edenhofer, Jacob, Théo Konc & J.C. Steckel (2024). In Germania la crisi energetica ha favorito la destra populista. *Eco. Rivista Mensile di Economia*. <https://www.rivistaeco.com/2024/10/18/in-germania-la-crisi-energetica-ha-favorito-la-destra-populista/>
- Verena Fritz, Jan C. Steckel & Michael Jakob (2023). How to get out of coal – some political economy considerations. Governance for Development. World Bank. <https://blogs.worldbank.org/governance/how-get-out-coal-some-political-economy-considerations>

- Steckel, J. C. & Valencia, F. M. (2023). Steps to achieve socially just climate policies at global scale. Österreichische Entwicklungspolitik 2022. A Just Post-COVID-19 World, p. 27 - 36
- Steckel, J.C. & C. Bez (2022). Klimaprotest auf Abwegen. *Süddeutsche Zeitung*, 7.12.2022: <https://www.sueddeutsche.de/wissen/extinction-rebellion-letzte-generation-klimaproteste-1.5710340?reduced=true>
- Minx, J. & J.C. Steckel (2022): Raus aus der Kohle, aber schnell. *Süddeutsche Zeitung*, 28.4.2022: <https://www.sueddeutsche.de/wissen/klimawandel-kohleausstieg-gastbeitrag-1.5574503?reduced=true>
- Dröge, S. & J.C. Steckel (2022): Klimaklub und Schwellenländer. *Frankfurter Rundschau*. 16.03.2022: <https://www.fr.de/meinung/gastbeitraege/klimaklub-und-schwellenlaender-91415041.html>
- Steckel, J.C. & N. Manych (2021): Kohleverstromung: Chinas unterschätzt Weichenstellung. *Handelsblatt*, 25.10.2021: <https://www.handelsblatt.com/meinung/gastbeitraege/gastkommentar-kohleverstromung-chinas-unterschaetzte-weichenstellung/27726292.html>
- Manych, J.C. Steckel & M. Jakob (2021): How finance from rich nations could drive 40% of new coal plant emissions. Carbon Brief, 14.4.2021, <https://www.carbonbrief.org/guest-post-how-finance-from-rich-nations-could-drive-40-of-new-coal-plant-emissions>
- Köhlin, G., I. Dorband, J.C. Steckel & T. Sterner (2021): Recipe for a green recovery: Carbon taxes. Brookings Foresight Africa: <https://www.brookings.edu/blog/africa-in-focus/2021/03/01/recipe-for-a-green-recovery-carbon-taxes/>
- Steckel, J.C. (2020): Kohleausstieg: Gerechtigkeit breit denken. Energate. 4.8.2020. <https://www.energate-messenger.de/news/204484/-kohleausstieg-gerechtigkeit-breit-denken->
- Jakob, M. & J.C. Steckel (2020): Sozial gerechte Wege aus der COVID-19-Krise. Makronom. 24.6.2020. <https://makronom.de/sozial-gerechte-wege-aus-der-covid-19-krise-36383>
- Steckel, J.C. & M. Jakob (2020): Dem Wachstumsversprechen durch Kohle widerstehen: Wie Schwellenländer klimafreundlich wachsen können. 4.5.2020. <https://www.energie-klimaschutz.de/wie-schwellenlaender-klimafreundlich-wachsen-koennen/>
- Peters, J. & J.C. Steckel (2019): Klimapolitik in einer polarisierten Welt. Makronom, 12.12.2019. <https://makronom.de/weltklimakonferenz-klimapolitik-in-einer-polarisierten-welt-34513>
- Steckel, J.C. & I.I. Dorband (2019): How carbon prices could ensure equitable sustainable development. <http://www.greenfiscalspolicy.org/policy-insights/carbon/how-carbon-prices-could-ensure-equitable-sustainable-development-2/>
- Steckel, J.C. & Jörg Peters (2019): Keine Moralpredigt, bitte! ZEIT online, 5.9.2019. <https://www.zeit.de/wirtschaft/2019-09/klimaschutz-oekologischer-fussabdruck-industrie-co2-emissionen-verzicht-gewissen-verantwortung>
- Steckel, J.C. (2019): What the “Yellow Vests” mean for the Paris Agreement. <https://blog.mcc-berlin.net/post/article/what-the-yellow-vests-mean-for-the-paris-agreement.html>
- Steckel, J.C. & M. Jakob (2018): Keeping the lights on – On the political economy of coal investments in Indonesia and Vietnam. Available online at: <http://blog.mcc-berlin.net/post/article/keeping-the-lights-on.html>
- Steckel, J.C. & F. Creutzig (2017): Deutschland: Das gefährliche Vorbild. ZEIT online, 7.11.2017. <https://www.zeit.de/wirtschaft/2017-11/klimapolitik-kohle-jamaika-koalition-erneuerbare-energien-emissionen>
- Steckel, J.C. & M. Jakob (2017): Klimaschutz fehlt. Frankfurter Rundschau, 16.6.2017

Steckel, J.C. & L. Hirth (2017): Globale Energiewende braucht deutlich günstigere Kredite für Erneuerbare. VIK Mitteilungen 1/17: pp. 19-20

Steckel, J.C. (2016): Klimaschutz als Hilfe zur Armutsbekämpfung. Frankfurter Rundschau, 5.10.2016

6. *Selected keynote talks*

Just, acceptable, and political feasible: On the multiple dimensions of just energy transitions
Istanbul Policy Center, October 23rd, 2024

Carbon Pricing: Who is affected and why?
Environment for Development webinar series, January 24th, 2024

The politics of phasing down global coal.
Summer School on Energy Technology, Policy and Politics – How to Build a Net-Zero GHG Emissions Energy System. ETH Zürich. Ascona, August 30th, 2023

Why we need to understand the national political economy to manage global commons
The case of coal.
Pre-EAERE conference on the Political Economy of Global Commons, June 26th, 2023

The distributional impacts of market-based climate policy. State of knowledge and future directions for research.
International Conference on Ex-Post Evaluation of Emissions Trading. European University Institute, June 20th, 2023

Klima, Kohle, Armutsbekämpfung – Herausforderungen für Klimapolitik in Entwicklungs- und Schwellenländern (in German).
Colloquium Fundamentale. Globale Klimapolitik in einer brüchigen Weltordnung. Karlsruhe, January 19th, 2023

The political economy of coal: Obstacles to clean energy transitions.
Sweet seminar, Toulouse School of Economics, December 12th, 2021

Coal, carbon pricing and the poor: Challenges for climate policy in low- and middle income countries.
Göteborg, November 1st, 2021

CONTRIBUTIONS TO INTERNATIONAL ASSESSMENTS

IPCC	IPCC 6 th Assessment Report 2022, Contributing Author (WG III, Chapter 2)
	IPCC 5 th Assessment Report 2014, Contributing Author (WG III, Annex II)
	IPCC Special Report on Renewables 2011, Lead Author (Technical Summary) and Contributing Author (Chapter 9)
IPSP	International Panel on Social Progress 2017, Contributing Author Chapter 4 (Growth, Human Development and Planetary Welfare)
UNEP EGR	UN Environment Emissions Gap Report 2017, Coordinating Lead Author for Chapter 5 “Bridging the Gap: Phasing out Coal”

CONFERENCE PRESENTATIONS

International Energy Workshop 2010, 2011, 2014, 2016 (Stockholm, Stanford, Beijing, Cork); 5th Atlantic Workshop on Energy and Environmental Economics 2012 (A Toxa); Annual Conference of the European Association of Environmental and Resource Economists (EAERE) 2013, 2016, 2017, 2020*, 2021*, 2022, 2023, 2024 (Toulouse, Zurich, Athens, online, Rimini, Limassol, Leuven); Innovating Access for Remote Areas 2014 (Berkeley), Our Common Future under Climate Change 2015 (Paris), 16th Conference of the International Schumpeter Society 2016 (Montreal), Fossil Fuel Supply and Climate Policy 2016, 2018 (Oxford), Environment for Development Annual Conference 2017, 2018, 2019, 2020, 2022, 2023 (Addis Ababa, Hanoi, Bogotá, online, Kampala, Accra), Annual Meeting of the German Economic Association 2018, 2024 (Freiburg, Berlin), European Consortium for Political Research, General Conference 2019*, 2020* (Wroclaw, online), The Economics of Inequality and the Environment 2020 (online)

REVIEW ACTIVITIES

Science, Science Advances, Nature, Nature Climate Change, Nature Energy, Proceedings of the National Academy of Sciences, Environmental Research Letters, Global Environmental Change, Journal of Environmental Economics and Management, Energy Economics, Resource and Energy Economics, Environmental and Resource Economics, Ecological Economics, World Development, Utilities Policy, Economic Analysis and Policy, Energy Policy, Climate Policy, Climatic Change, Climate and Development, Energy Research & Social Science, WIREs Climate Change, One Earth, Fulbright Foundation, Routledge, Alexander von Humboldt Stiftung, Schweizerischer Nationalfonds

MEDIA COVERAGE

ZDF (online, 20.11.2024), Frankfurter Allgemeine Zeitung (print, online, 20.11.2024), Hr info (radio, 18.11.2024), Deutschlandfunk (radio, 2.6.2023), Süddeutsche Zeitung (print, 7.12.2022), ARD Brisant (TV, 9.11.2022), Süddeutsche Zeitung (print, 11.5.2022), World Bank (Tell me how Podcast, 19.1.2022), WDR Planet Wissen (TV, 10.12.2021), Tagesspiegel (print, online, 10.6.2021), Deutschlandradio (Interview, 30.12.2020), Frankfurter Rundschau (online, 18.11.2020), Sveriges Radio (radio, 16.7.2020), Deutsche Welle (online, 16.01.2020), Tagespiegel Background (online, 27.5.2020), ZEIT online (Interview, 5.12.2019), Frankfurter Rundschau (online, 29.11.2019), ZEIT online (online, 5.9.2019); SPIEGEL online (31.07.2019); Economist (print and online, 18.8.2018), die tageszeitung (print, 22.3.2018); Le Monde (online, 13.3.2018); Deutschlandfunk (Interview, 9.2.2018), Bayerischer Rundfunk (Interview, 9.2.2018), Washington Post (print, 8.2.2018); ZEIT online (online, 7.11.2017); Frankfurter Rundschau (print, 16.6.2017); Frankfurter Allgemeine Sonntagszeitung (print, 26.02.2017); Frankfurter Rundschau (print, 7.10.2016); Discover Magazine (online and print, 30.11.2015); Wirtschaftswoche (online, 27.11.2015); Focus (online, 23.7.2015); Australian Broadcasting Channel (radio and online, 13.7.2015); Le Scienze (online, 8.7.2015); Vox.com (online, 7.7.2015); Frankfurter Allgemeine Zeitung (print 7.7.2015); International Business Times (online, 7.7.2015); Pacific Standard (online, 7.7.2015); Tagesspiegel (online, 2.11.2014); Süddeutsche Zeitung (print, 30.10.2014)