

PROF. DR. OTTMAR EDENHOFER



— Prof. Dr. rer. pol., Dipl.-Vw.

CURRENT POSITIONS

- Director and Chief Economist at the Potsdam Institute for Climate Impact Research (PIK), PIK's research has been rated "excellent" during the last Leibniz evaluation
- Chair of the European Scientific Advisory Board for Climate Change (ESABCC)
- Professor of Climate Economics and Public Policy at the Technische Universität (TU) Berlin

CONTACT

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PROFILE

Ottmar Edenhofer is Professor at the Technische Universität Berlin and widely considered to be one of the world's leading experts on the economics of climate change. He is Director and Chief Economist at the Potsdam Institute for Climate Impact Research (PIK). From 2007 to 2018 he headed PIK's Research Domain 3 "Sustainable Solutions", which received an excellent evaluation by the Leibniz Society in 2014. Following the strategic decision of PIK in 2007 to become more solution-oriented with interdisciplinary Research Domains, Ottmar Edenhofer shaped the research agenda of this department. He was pioneering in giving the institute, which traditionally focused on large-scale quantitative computational modelling of the earth and its processes, a social science research agenda providing rigorous and meaningful information on climate change mitigation to society. In 2012 he was appointed director of the newly founded Mercator Research Institute on Global Commons and Climate Change (MCC). MCC's work was considered "excellent" by an external scientific evaluation board commissioned by Stiftung Mercator in 2015. It ranked first in Europe and fourth worldwide by the ICCG Climate Think Tank Ranking 2016 and second in the category energy and the environment in Europe within the "Prospect: Think Tank Awards 2016".

Edenhofer is member of the German National Academy of Science and Engineering acatech as well as member of the German National Academy of Sciences Leopoldina, Section Economics and Empirical Social Sciences. In July 2018, Edenhofer was awarded the Romano Guardini Prize by the Katholische Akademie in Bayern (Catholic Academy in Bavaria). In 2020, he received the prestigious Deutsche Umweltpreis (German Environmental Award) by the Deutsche Bundesstiftung Umwelt (DBU) amongst others for his outstanding achievements in the field of carbon pricing. In November 2021, Edenhofer was awarded the Arthur Burkhardt-Prize for the interdisciplinary orientation of his research. In December 2022, Edenhofer received the Bavarian Order of the Constitution. In the course of the assembly of academy members on the occasion of Leibniz Day 2023, Edenhofer was appointed to the Berlin-Brandenburg Academy of Sciences and Humanities (BBAW) due to his outstanding scientific achievements.

From 2008 to 2015 Ottmar Edenhofer served as Co-Chair of Working Group III of the Nobel Laureate Intergovernmental Panel on Climate Change (IPCC). In this capacity he led the fifth assessment cycle and edited the report "Climate Change 2014: Mitigation of Climate Change" and the "Special Report on Renewable Energy Sources and Climate Change Mitigation". The Fifth Assessment Report on Climate Change Mitigation is considered a landmark report. It laid the scientific basis for the Paris Agreement. Its analysis on the feasibility of the 2°C-target was ground-breaking and provided essential information for decision makers.

Ottmar Edenhofer's research influences policy-making at national, European and international level. On 24 March 2022, Edenhofer was appointed by the EU to the newly founded European Scientific Advisory Board on Climate Change (ESABCC), which he now chairs. The establishment of this body is prescribed in the European Climate Law. The Advisory Board consists of 15 independent, high-level scientific experts from a broad range of relevant disciplines. It provides independent scientific advice on EU policies and climate targets and their coherence with the European Climate Law and the EU's international commitments under the Paris Agreement and produces reports assessing the extent to which EU policies are consistent with the 2021 European Climate Law and the EU's commitments under the Paris Agreement. In this capacity, he was responsible for the preparation of several highly regarded reports a.o. on reaching climate neutrality in the EU, Carbon Dioxide Removal (CDR), the EU 2040 Climate Target. President von der Leyen values his advice and has repeatedly discussed climate policy issues with him. Edenhofer frequently meets with top-level EU officials such as Teresa Ribera (First Executive Vice-President of the European Commission for Clean, Just and Competitive Transition and Commissioner for Competitiveness under the second von der Leyen Commission), Wopke Hoekstra (European Commissioner for Climate, Net Zero and Clean Growth), Peter

van Kemseke (Green Deal Adviser of President of the European Commission), Kurt Vandenberghe (Director-General of the European Commission's Directorate-General Climate Action (DG CLIMA) as well as members of the European Parliament like MdP Peter Liese.

Edenhofer's policy advice is regularly sought by leading decision-makers, underlining the high relevance and excellence of his research. In Germany, these have in recent years included leading politicians and high-ranking members of former and current federal governments, including Federal Chancellor Friedrich Merz, Olaf Scholz, Dr Angela Merkel, Federal President Frank-Walter Steinmeier, Federal Minister for the Environment, Climate, Nature Conservation and Nuclear Safety Carsten Schneider, Federal Minister of Education and Research Bettina Stark-Watzinger (2021–2024), Foreign Minister Heiko Maas (2018–2021), Federal Minister for Special Affairs and Head of the Federal Chancellery Dr Helge Braun (2018–2021), Brandenburg's Minister for Science Dr Manja Schüle, the leadership of the CDU, FDP, Greens and SPD, as well as senior representatives of the Bundesbank. The German Federal Government appointed him, together with the legal scholar Sabine Schlacke, as Chair of the Scientific Platform for Climate Protection, which has the mandate to monitor the implementation of the climate package and to submit relevant proposals. At the international level, Edenhofer is in regular contact with government representatives from around the world and with institutions such as the European Central Bank and the World Bank. In December 2020, Pope Francis appointed Ottmar Edenhofer as an adviser to the Dicastery for Promoting Integral Human Development. The Dicastery's mission is to promote justice – especially for refugees and stateless persons who have had to leave their homes because of violence, economic crises or natural disasters, as well as for the sick and the poor.

Edenhofer's expertise is also in high demand in the business world: He advises for example the world's largest automobile manufacturer Volkswagen, the national railway company Deutsche Bahn AG, the German labour union IG Metall as well as insurance companies and banks to develop concepts for climate protection and sustainability.

Furthermore, he is a member of the "High-Level Commission on Carbon Prices" chaired by Joseph Stiglitz, Nobel Laureate in Economics, and Lord Nicholas Stern at the invitation of Ségolène Royal and Feike Sijbesma, Co-Chairs of the Carbon Pricing Leadership Coalition (CPLC) High Level Assembly. The commission prepared a highly regarded scientific assessment on carbon pricing for the World Bank Group and International Monetary Fund Spring Meetings in 2017. In connection with the German G20 presidency in 2017, Edenhofer headed the T20 Task Force "Climate Policy and Finance" which prepared scientific policy advice for the G20 and was a member of the OECD Advisory Council "Growth, Investment and the Low-Carbon Transition". From 2015 until February 2024 he was part of the "National Expert Advisory Council on Climate Change" for Ireland which was set up in 2015 in the framework of the "Climate Action and Low-Carbon Development Bill 2015". The Council advises and makes recommendations to the Minister for the Environment, community and local government as a national mitigation plan is prepared. Ottmar Edenhofer was appointed Coordinating Lead Author of the chapter on Economic Growth, Human Development and Planetary Welfare for the report "Rethinking Society for the 21st Century" by the International Panel on Social Progress (IPSP). The Panel includes renowned economists and works under the patronage of Amartya Sen.

According to the Web of Science citation index, Ottmar Edenhofer belonged to the top 1% most cited scientists worldwide in the category "cross-field" in 2018, 2020, 2021 and 2022. The *Frankfurter Allgemeine Zeitung* ranked him among the ten most influential economists in Germany in 2019 and 2020; in 2021, he was ranked 15th. Ottmar Edenhofer has published articles in *Science*, *PNAS*, *Nature*, *Nature Climate Change*, *European Economic Review*, *Resource and Energy Economics*, *Energy Economics*, *Macroeconomic Dynamics*, *World Development*, the *Journal of Environmental Economics and Management*, and other academic journals, and he has authored several books. His publications address the design of climate and energy

policy instruments, questions of growth, technological change and development, public finance, welfare economics, the distributional effects of climate policy instruments, game-theoretic aspects of designing international agreements, long-term climate and energy system scenarios, mitigation costs and mitigation strategies, as well as the science-policy interface. His work is widely cited, as reflected in an h-index of 63 in Scopus, 61 in Web of Science and 88 in Google Scholar. Edenhofer's work has been covered, among others, by *The New York Times*, *The Economist*, *China Daily*, *Der Spiegel*, ARD, ZDF and Deutschlandfunk. He also writes regularly for leading media outlets such as *DIE ZEIT*, *Süddeutsche Zeitung* and *Frankfurter Allgemeine Zeitung*.

Edenhofer has supervised more than 70 successfully completed doctoral projects. Some of his former doctoral students have since been appointed to professorships and have received prestigious awards for their dissertations.

EDUCATION

- 1999 — Doctor rer. pol. (summa cum laude), topic: Social Conflict and Technological Change. Evolutionary Models of Energy Use.
- 1991 — B.A. Philosophy, Munich School of Philosophy
- 1987 — Diplomvolkswirt (Master Degree in Economics), University of Munich (with honors)

CAREER

- since 2022 — Chair of European Scientific Advisory Board on Climate Change (EASBCC)
- since 2018 — Director of the Potsdam Institute for Climate Impact Research
- 2012 - 2024 — Director of Mercator Research Institute on Global Commons and Climate Change (MCC)
- since 2008 — Professor for "Climate Economics and Public Policy" at the Technische Universität Berlin, member of faculties VI and VII
- 2008 - 2015 — Co-Chair of Working Group III of the IPCC
- 2007 - 2018 — Deputy Director of the Potsdam Institute for Climate Impact Research
- 2007 - 2018 — Co-Chair and initiator of the new research strategy of research department 3 Sustainable Solutions at the Potsdam Institute for Climate Impact Research
- 2007 — Call to the position of President of the Wuppertal Institute, associated with a professorship at Bergische Universität Wuppertal; declined
- 2007 — Advisor to the Federal Foreign Office on questions of global climate change
- since 2005 — Chief Economist of the Potsdam Institute for Climate Impact Research
- 2004 - 2007 — Lead Author, Working Group III of the Intergovernmental Panel on Climate Change (IPCC), Chapters 1 und 11. In 2007, the IPCC received the Nobel Peace Prize.
- 2000 - 2005 — Deputy Chair of research domain Social Systems at the Potsdam Institute for Climate Impact Research
- 1994 - 2000 — Assistant at the Institute for Sociology at the Technische Universität Darmstadt
- 1991 - 1993 — Founder and director of humanitarian organization (Jesuit Refugee Service) in Croatia and Bosnia
- 1987 - 1994 — Member of Jesuit Order
- 1982 - 1987 — Founding of public health company

MEMBERSHIP OF BOARDS AND COMMITTEES, SCIENTIFIC POLICY ADVICE (selection)

Policy and Business Advice

- Chair of the European Scientific Advisory Board for Climate Change (ESABCC)
- Member of the Advisory Board of Stiftung Klima-Wirtschaft
- Member of the Climate Advisory Council of Investcorp
- Member of the *External Advisory Panel* for the OECD project on “Building Climate and Economic Resilience in the Transition to Low-carbon Economy”
- Co-Chair of the Steering Committee for the “Climate Protection Science Platform” (WPKS) of the German Federal Government
- Member of the #Zukunftsstrategie (#FutureStrategy) Forum, the central advisory body for future strategy under the auspices of the BMBF (2023-2025)
- Member of the Sustainability Advisory Board of the state of Brandenburg (Nachhaltigkeitsbeirat Brandenburg) (2021-2024)
- Member of the *High-Level Commission on Carbon Prices* founded at the invitation of Ségolène Royal and Feike Sijbesma, Co-Chairs of the Carbon Pricing Leadership Coalition (CPLC) High Level Assembly, chaired by Joseph Stiglitz, Nobel Laureate in Economics, and Lord Nicholas Stern (2016-2017)
- Member of the Advisory Committee to *Princeton’s Carbon Mitigation Initiative CMI*
- Member of the *Science Advice for Policy by European Academies (SAPEA)* working group “A systemic approach to the energy transition in Europe” (till 2021)
- Co-chair of the *Food System Economics Commission (EAT)*
- Member of the *High-Level Advisory Group on Sustainable and Inclusive Recovery and Growth (HLAG)* (2021-2023)
- Member of the *Volkswagen Sustainability Council* (2017-2022)
- Member of the *National Expert Advisory Council on Climate Change* for Ireland set up in the framework of the “Climate Action and Low-Carbon Development Bill 2015” (2015-2024)
- Member of the OECD Advisory Council *Growth, Investment and the Low-Carbon Transition*
- Member of the Advisory Board of the *Green Growth Knowledge Platform* (project of the Global Green Growth Institute, the OECD, United Nations Environment Programme and the World Bank)
- Member of the Committee for Environmental and Resource Economics (AURÖ) (part of the Verein für Socialpolitik e.V.)

Scientific Functions and Editorships

- Member of the Berlin-Brandenburg Academy of Sciences and Humanities
- Mercator-Professor 2022, Universität Duisburg-Essen
- Member of the University Council, Carl von Ossietzky Universität Oldenburg
- Member of the German National Academy of Science and Engineering, acatech
- Member of the German National Academy of Sciences Leopoldina, Section Economics and Empirical Social Sciences
- Member of the Scientific Advisory Board, European Institute on Economics and the Environment (EIEE)
- Member of the Scientific Advisory Council, ZEW – Leibniz Centre for European Economic Research
- Member of the Scientific Advisory Board, EUREF-Institute Berlin
- Member of the Forschungsforum Energiewende [Research Forum Energy Transition] (2013-2015)
- Co-editor of REEP Review of Environmental Economics and Policy (ranked 16th in Environmental Studies and 12th in Economics according to the 2023 Journal Citation)
- Member of the plenary assembly of the Central Committee of German Catholics (ZdK) (2021-2025)
- Member of the Vatican Advisory Group, Dicastery for Promoting Integral Human Development
- Fellow at the CESifo Research Network
- Fellow at Centre for Economic Policy Research (CEPR), Climate Change and the Environment
- Senior Academic Fellow at Hoffmann Centre for Global Sustainability

Awards and Prizes

- Award of the Bavarian Order of the Constitution (2022) by the Bavarian State Parliament
- Award of the Arthur-Burkhardt-Prize (2021) by the Arthur Burkhardt-Stiftung für Wissenschaftsförderung (Arthur Burkhardt-Foundation for the Promotion of Science)
- Award of the Romano-Guardini-Prize (2018) by the Katholische Akademie in Bayern (Catholic Academy in Bavaria)
- Award of the Deutsche Umweltpreis (German Environmental Award) by the Deutsche Bundesstiftung Umwelt (2020)
- In 2018, 2020,2021 and 2022, Ottmar Edenhofer belonged to the 1% of the most cited scientists worldwide in the category "interdisciplinary science" according to the Web of Science citation index

SELECTION OF THE MOST IMPORTANT PUBLICATIONS

Publications

Franks, R. M., Gruner, F., Kalkuhl, M., Lessmann, K., & Edenhofer, O. (2026). Pigou's Advice and Sisyphus' Warning: Carbon Pricing with Non-Permanent Carbon Dioxide Removal. *Environmental and Resource Economics*, 89: 11. <https://doi.org/10.1007/s10640-025-01060-3>

Edenhofer, O. and Kalkuhl, M. (2024): Planetarische Müllabfuhr – Gamechanger der Klimapolitik?: Thünen-Vorlesung 2024. *Perspektiven der Wirtschaftspolitik*, Vol. 25 (Issue 3-4), pp. 172-182, doi: 10.1515/pwp-2024-0028.

Edenhofer, O., Lessmann, K., Tahri, I. (2024): Asset pricing and the carbon beta of externalities. *Journal of Environmental Economics and Management*, Volume 125, 102969, doi: 10.1016/j.jeem.2024.102969.

Sureth, M., Kalkuhl, M., Edenhofer, O. and Rockström, J. (2023): A Welfare Economic Approach to Planetary Boundaries. *Jahrbücher für Nationalökonomie und Statistik*, Vol. 243 (Issue 5), pp. 477-542, doi: 10.1515/jbnst-2022-0022.

Mattauch, L., Klenert, D., Stiglitz, J. E., Edenhofer, O. (2022): Overcoming wealth inequality by capital taxes that finance public investment. *Structural Change and Economic Dynamics*, Volume 63, 383-395, doi: 10.1016/j.strueco.2022.05.009.

Hänsel, M. C., Franks, M., Kalkuhl, M., Edenhofer, O. (2022): Optimal carbon taxation and horizontal equity: A welfare-theoretic approach with application to German household data. *Journal of Environmental Economics and Management*, Volume 116, 102730, doi: 10.1016/j.jeem.2022.102730.

Roofcs, C., Gaitan, B., & Edenhofer, O. (2021): Make or brake — Rich states in voluntary federal emission pricing. *Journal of Environmental Economics and Management*, 102463, doi: 10.1016/j.jeem.2021.102463.

Kornek, U., Klenert, D., Edenhofer, O., & Fleurbaey, M. (2021): The social cost of carbon and inequality: When local redistribution shapes global carbon prices. *Journal of Environmental Economics and Management*, Vol. 107, 102450, doi: 10.1016/j.jeem.2021.102450.

Edenhofer, O., Franks, M., & Kalkuhl, M. (2021): Pigou in the 21st Century: a tribute on the occasion of the 100th anniversary of the publication of *The Economics of Welfare*. *International Tax and Public Finance*, doi: 10.1007/s10797-020-09653-y.

Bauer, N., Bertram, C., Schultes, A., Klein, D., Luderer, G., Kriegler, E., Popp, A., & Edenhofer, O. (2020): Quantification of an efficiency – sovereignty trade-off in climate policy. *Nature*, Vol. 588, 261–266, doi: 10.1038/s41586-020-2982-5.

Kornek, U. & Edenhofer, O. (2020): The strategic dimension of financing global public goods. *European Economic Review*, Vol. 127, 103423, doi: 10.1016/j.eurocorev.2020.103423.

Kalkuhl, M., Steckel, J. C., & Edenhofer, O. (2020): All or nothing: Climate policy when assets can become stranded. *The Journal of Environmental Economics and Management*, Vol. 100, 102214, doi: 10.1016/j.jeem.2019.01.012.

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*, Vol. 4, 897–900, doi: 10.1038/s41560-019-0500-5.

Edenhofer, O., Steckel, J., Jakob, M., & Bertram, C. (2018): Reports of coal's terminal decline may be exaggerated. *Environmental Research Letters*, doi: 10.1088/1748-9326/aaa3a2.

Franks, M., Klenert, D., Schultes, A., Lessmann, K., & Edenhofer, O. (2018): Is capital back? The role of land ownership and savings behavior. *International Tax and Public Finance*, doi: 10.1007/s10797-018-9486-3.

- Fuss, S., Flachsland, C., Koch, N., Kornek, U., Knopf, B., & Edenhofer, O. (2018): A framework for assessing the performance of cap-and-trade systems: Insights from the European Union Emissions Trading System. *Review of Environmental Economics and Policy*, Vol. 12, Issue 2, 220-241, doi: 10.1093/reep/rey010.
- Klenert, D., Mattauch, L., Combet, E., Edenhofer, O., Hepburn, C., Rafaty, R., & Stern, N. (2018): Making carbon pricing work for citizens. *Nature Climate Change*, Vol. 8, 669–677, doi: 10.1038/s41558-018-0201-2.
- Siegmeier, J., Mattauch, L., & Edenhofer, O. (2018): Capital beats coal: How collecting the climate rent increases aggregate investment. *Journal of Environmental Economics and Management* 88, 366-378, doi: 10.1016/j.jeem.2017.12.006.
- Jakob, M., Chen, C., Fuss, S., Marxen, A., Rao, N. D., & Edenhofer, O. (2016): Carbon Pricing Revenues Could Close Infrastructure Access Gaps. *World Development*, 84, 254-265, doi: 10.1016/j.worlddev.2016.03.001.
- Kalkuhl, M. & Edenhofer, O. (2016): Ramsey meets Thünen: the impact of land taxes on economic development and land conservation. *International Tax and Public Finance*, doi: 10.1007/s10797-016-9403-6.
- Klenert, D., Mattauch, L., Edenhofer, O., & Lessmann, K. (2016): Infrastructure and inequality: Insights from incorporating key economic facts about household heterogeneity. *Macroeconomic Dynamics*, doi: 10.1017/S1365100516000432.
- Koch, N., Grosjean, G., Fuss, S., & Edenhofer, O. (2016): Politics matters: Regulatory events as catalysts for price formation under cap-and-trade. *Journal of Environmental Economics and Management*, 78, 121-139, doi: 10.1016/j.jeem.2016.03.004.
- Bertram, C., Luderer, G., Pietzcker, R. C., Schmid, E., Kriegler, E., & Edenhofer, O. (2015): Complementing carbon prices with technology policies to keep climate targets within reach. *Nature Climate Change*, 5(3), 235-239, doi: 10.1038/nclimate2514.
- Edenhofer, O. (2015): King Coal and the queen of subsidies. *Science*, 349(6254), 1286-1287, doi: 10.1126/science.aad0674.
- Steckel, J. C., Edenhofer, O., & Jakob, M. (2015): Drivers for the renaissance of coal. *Proceedings of the National Academy of Sciences of the United States of America*, 112(29), E3775-E3781, doi: 10.1073/pnas.1422722112.
- Edenhofer, O., Mattauch, L., & Siegmeier, J. (2015): Hypergeorgism: When Rent Taxation Is Socially Optimal. *Finanzarchiv: Public Finance Analysis*, 71(4), 474-505, doi: 10.1628/001522115X14425626525128.
- Edenhofer, O. & Kowarsch, M. (2015): Cartography of pathways: A new model for environmental policy assessments. *Environmental Science & Policy*, 51, 56-64, doi: 10.1016/j.envsci.2015.03.017.
- Jakob, M. & Edenhofer, O. (2014): Green growth, degrowth, and the commons. *Oxford Review of Economic Policy*, 30(3), 447-468, doi: 10.1093/oxrep/gru026.
- Edenhofer, O. & Minx, J. (2014): Mapmakers and navigators, facts and values. *Science*, 345(6192), 37-38, doi: 10.1126/science.1255998.
- Edenhofer, O., Hirth, L., Knopf, B., Pahle, M., Schlömer, S., Schmid, E., & Ueckerdt, F. (2013): On the economics of renewable energy sources. *Energy Economics*, 40, S12-S23, doi: 10.1016/j.eneco.2013.09.015.
- Edenhofer, O., Seyboth, K., Creutzig, F., & Schlömer, S. (2013): On the Sustainability of Renewable Energy Sources. *Annual Review of Environment and Resources*, 38, 169-200, doi: 10.1146/annurev-environ-051012-145344.

Assessment Reports

Edenhofer, O., Pichs-Madruga, R., Sokona, Y., Farahani, E., Kadner, S., Seyboth, K., Adler, A., Baum, I., Brunner, S., Eickemeier, P., Kriemann, B., Savolainen, J., Schlömer, S., Stechow, C. v., Zwickel, T., & Minx, J. C. (eds.) (2014): *Climate Change 2014 - Mitigation of Climate Change: Working Group III Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press.

Edenhofer, O., Pichs-Madruga, R., Sokona, Y., Seyboth, K., Matschoss, P., Kadner, S., Zwickel, T., Eickemeier, P., Hansen, G., Schlömer, S., Stechow, C. v. (eds.) (2012): *Renewable Energy Sources and Climate Change Mitigation. Special Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press, 1075 p.

Books

Edenhofer, O. & Jakob, M. (eds.) (2019): *Klimapolitik. Ziele, Konflikte, Lösungen*. 2nd, updated and extended edition. C.H. Beck Verlag, 144 p.

Edenhofer, O., Wallacher, J., Reder, M., & Lotze-Campen, H. (eds.) (2010): *Global aber gerecht*. München: Beck Verlag, 240 p.

Article in an Edited Book

Edenhofer, O., Flachsland, C., Jakob, M., & Lessmann, K. (2015): *The Atmosphere as a Global Commons: Challenges for International Cooperation and Governance*. In: Bernhard, L., Semmler, W. (eds.): *The Oxford Handbook of the Macroeconomics of Global Warming*. Oxford: Oxford University Press, 260-296.

MAIN RESEARCH INTERESTS

- Impact of technological change on the costs and strategies of climate change mitigation
- Public Finance
- Distributional effects of climate policy instruments
- Social Cost-Benefit Analysis
- Economic Growth and Sustainability Theory
- Economics of Climate Change
- Welfare Theory and General Intertemporal Equilibrium Theory
- Model simulations in economics and social sciences
- Game theoretic aspects of designing international agreements
- Energy Economics
- Scientific policy advice and the science-policy-interface
- Inequality Research

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PUBLICATIONS

2026

ISI Publikationen

Franks, R. M., Gruner, F., Kalkuhl, M., Lessmann, K., & Edenhofer, O. (2026): Pigou's Advice and Sisyphus' Warning: Carbon Pricing with Non-Permanent Carbon Dioxide Removal. *Environmental and Resource Economics*, 89: 11. doi: [10.1007/s10640-025-01060-3](https://doi.org/10.1007/s10640-025-01060-3)

Non-ISI Publications

Edenhofer, O., Jacobsen, J. B., Díaz Anadón, L., van Aalst, M., Cartalis, C., Dessai, S., Eory, V., Hertwich, E., Kitzing, L., López-Gunn, E., Nilsson, L. J., Riahi, K., Rogelj, J., Schrijver, N., Soussana, J.-F. (2026): Climate adaptation and mitigation in the agri-food system, (European Scientific Advisory Board on Climate Change), Luxembourg : Publications Office of the European Union, 359 p. doi: [10.2800/5509580](https://doi.org/10.2800/5509580)

Edenhofer, O., Kilimann, C., & Leisinger, C. (2026): CO₂ hat seinen Preis. Springer Fachmedien Wiesbaden, doi: [10.1007/978-3-658-50400-7](https://doi.org/10.1007/978-3-658-50400-7)

Edenhofer, O., Jacobsen, J. B., Díaz Anadón, L., van Aalst, M., Cartalis, C., Dessai, S., Eory, V., Hertwich, E., Kitzing, L., López-Gunn, E., Nilsson, L. J., Riahi, K., Rogelj, J., Schrijver, N., Soussana, J.-F. (2026): Strengthening Resilience to Climate Change: Recommendations for an effective EU adaptation policy framework, (European Scientific Advisory Board on Climate Change), Luxembourg : Publications Office of the European Union, 169 p., doi: [10.2800/7840611](https://doi.org/10.2800/7840611)

2025

ISI Publications

Merfort, A., Strefler, J., Abrahão, G., Bauer, N., Dorndorf, T., Kriegler, E., Luderer, G., Merfort, L., Edenhofer, O. (2025): Separating CO₂ emission from removal targets comes with limited cost impacts. *nature communications*, 16, 5298, doi: [10.1038/s41467-025-60606-7](https://doi.org/10.1038/s41467-025-60606-7)

Edenhofer, O., Gerster, A., Gessner, J., Myers, E., Pahle, M., Palmer, K. (2025): Targeted policies to break the deadlock on heating bans. *nature climate change*. 15, 578–580 (2025), doi: [10.1038/s41558-025-02343-9](https://doi.org/10.1038/s41558-025-02343-9)

Bolton, P., Edenhofer, O., Kleinnijenhuis, A., Rockström, J., Zettelmeier, J. (2025): Why coalitions of wealthy nations should fund others to decarbonize. *Nature*, 639, 574-576, doi: [10.1038/d41586-025-00779-9](https://doi.org/10.1038/d41586-025-00779-9)

Edenhofer, O., Franks, M., Gruner, F., Hänsel, M., Kalkuhl, M., Kellner, M., Knopp, F. (2025): Lessons Learned from the German Double Whammy: The Importance of Price Incentives and Targeted Compensation for the Design of Energy and Climate Policy. *Review of Environmental Economics and Policy*, doi: [10.1086/732190](https://doi.org/10.1086/732190)

Non-ISI Publications

Carraro, C., Edenhofer, O. (2025): Opportunities for reform increase focus on policy-relevant research. *Economics of the environment, climate change, and wine: Selected papers of Robert N. Stavins, Volume 3.* World Scientific, doi: [10.1142/9789811292415_0015](https://doi.org/10.1142/9789811292415_0015)

Knopp, F., Hänsel, M. C., Kellner, M., Kalkuhl, M., Edenhofer, O. (2025): Compensating for Carbon Pricing with Loss Aversion - Optimal Taxation Under Vertical and Horizontal Inequality. *SSRN Electronic Journal*, doi: [10.2139/ssrn.5199506](https://doi.org/10.2139/ssrn.5199506)

Edenhofer, O., Eydam, U., Heinemann, M., Kalkuhl, M., Moretti, N. (2025): A Green-Golden Rule for Climate Policy. *SSRN Electronic Journal*, doi: [10.2139/ssrn.5119380](https://doi.org/10.2139/ssrn.5119380)

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Reusswig, F., Gerlinger, K., & Edenhofer, O. (2004): Lebensstile und globaler Energieverbrauch - Analyse und Strategieansätze zu einer nachhaltigen Energiestruktur, Potsdam: Potsdam-Institut für Klimafolgenforschung.

2003

ISI Publications

Hasselmann, K., Latif, M., Hooss, G., Azar, C., Edenhofer, O., Jaeger, C. C., Johannessen, O. M., Kemfert, C., Welp, M., & Wokaun, A. (2003): The challenge of long-term climate change. *Science*, 302(5652), 1923-1925.

Non-ISI Publications

Edenhofer, O. (2003): Wege zu einer nachhaltigen Klima- und Energiepolitik. Aus Politik und Zeitgeschichte, 18-26.

Edenhofer, O. (2003): Energiepolitik in globaler Verantwortung. Stimmen der Zeit, 221, 579-594.

Reusswig, F., Gerlinger, K., & Edenhofer, O. (2003): Lebensstile und Energieverbrauch - Analyse und Strategieansätze zu einer nachhaltigen Energiestruktur. WBGU-Hauptgutachten 2003, Springer-Verlag.

2002

Non-ISI Publications

Edenhofer, O., Held, H., & Jaeger, C. (2002): Langfristige Optionen einer globalen Energie- und Umweltpolitik. In: Hauser, W. (eds.), Das Experiment mit dem Planeten Erde. Stuttgart: Theiss Verlag, 370-383.

2001

Non-ISI Publications

Edenhofer, O. (2001): Klimawandel und globales Umweltmanagement. Stimmen der Zeit, Heft 11, Bd. 219, 723-734.

Newspaper and Magazines

Edenhofer, O. (2001): Wenn der Golfstrom versiegt. In: Süddeutsche Zeitung (04./05.08.2001).

Edenhofer, O. (2001): Sieben neue Klimaplagen. In: Frankfurter Rundschau (06.03.2001).

2000

Non-ISI Publications

Brassel, K.-H., Edenhofer, O., Möhring, M., & Troitzsch, K.G. (2000): Greening Investors. Economic Development and Technological Change in a Multilevel Simulation Model. In: Suleiman, R., Troitzsch, K. G., Gilbert, N. (eds.), Tools and Techniques for Social Science Simulation. Heidelberg: Physica Verlag, 319-343.

1999

Non-ISI Publications

Brassel, K.-H., Edenhofer, O., Möhring, M., Mentges, E., & Troitzsch, K. G. (1999): Soziale Dynamik und technische Innovation - Anforderungen an ein Simulationswerkzeug. In: Grützer, R., Möhring, M. (eds.), Werkzeuge für die Modellierung und Simulation im Umweltbereich, 9. Workshop, Koblenz. Marburg: Metropolis-Verlag.

Edenhofer, O. (1999): Jenseits von Links und Rechts - Neuere Diskussionen zu Arbeitslosigkeit und Wohlfahrtsstaat. Stimmen der Zeit, Heft 1, Bd. 217, 29-36.

1998

ISI Publications

Edenhofer, O. & Jaeger, C. C. (1998): Power shifts: the dynamics of energy efficiency. *Energy Economics*, 20(5-6): 513-537, doi: 10.1016/S0140-9883(98)00013-9.

Non-ISI Publications

Jaeger, C. C., Renn, O., Rosa, E. A., Webler, T., Cantor, R., Edenhofer, O., Funtowicz, McDonell, G., Ravetz, J. R., Rayner, S., & Sergen, G. (1998): Decision Analysis and rational action. Vol. 3: The tools for policy analysis. In: Rayner, S., Malone, E. L. (eds.), *Human choice and climate change*. Batelle Press, 141-215.

1997

ISI Publications

Jaeger, C. C., Barker, J., Edenhofer, O., Faucheux, S., Hourcade, J. C., Kasemir, B., Oconnor, M., Parry, M., Peters, I., Ravetz, J., & Rotmans, J. (1997): Procedural leadership in climate policy: a European task. *Global Environmental Change-Human and Policy Dimensions*, 7(3), 195-203, doi: 10.1016/S0959-3780(97)00008-3.

Non-ISI Publications

Edenhofer, O. (1997): Das Ende der grünen Apokalypse, Neuere Diskussionen zum schwierigen Verhältnis von Ökonomie und Ökologie. *Stimmen der Zeit*, Heft 2, Bd. 215, 131-134.

1996

Non-ISI Publications

Edenhofer, O. (1996): Das Management globaler Allmenden. In: Diekmann, A., Jaeger, C. C. (eds.), *Umweltsoziologie. Kölner Zeitschrift für Soziologie und Sozialpsychologie, Sonderheft 36/1996*, 390-419.

Rohner, M. & Edenhofer, O. (1996): Kann sich die Klimapolitik auf die Nutzen-Kosten-Analyse verlassen? In: Brauch, H. G. (eds.), *Klimapolitik*. Berlin: Springer-Verlag.

1991

Non-ISI Publications

Edenhofer, O. (1991): Wachstumskrise, Entwicklung und Umweltschutz. In: Kerber, W., Müller, J. (eds.), *Soziales Denken in einer zerrissenen Welt – Anstöße der Katholischen Soziallehre*. Freiburg: Herder.

1990

Non-ISI Publications

Edenhofer, O. (1990): Überlegungen zur "Architektur" eines Hospizes. *edition CHV*, 2. München: Christophorus Hospiz-Verein.

CURRENT PhDs

Charlotte Plinke	Preliminary title of PhD thesis: “Political Economy of Sustainable Development and Global Commons”
Thomas Klug	Preliminary title of PhD thesis: “Political Economy of Inclusive Wealth Governance and Sustainability”
Patrick Klösel	Preliminary title of PhD thesis: “Essays on Methods in Climate Economics”
Alexander Radebach	Preliminary title of PhD thesis: “Network-theoretic instruments for macroeconomic sustainability assessment”
Jan Hassel	Preliminary title of PhD thesis: “Event-Based Modeling of Short- and Long-Term Impacts of Weather Extremes on the Economy”
Johannes Koch	Preliminary title of PhD thesis: “Development effect & climate change mitigation policies in countries undergoing structural change - a macroeconomic analysis”
Katharina Ziegler	Preliminary title of PhD thesis: “Die makroökonomischen Folgen des Klimawandels unter Berücksichtigung von Anpassung“
Klaas Miersch	
Michaja Pehl	Preliminary title of PhD thesis: “Climate Change Implications on Industrial Energy and Material Flows”
Sarah Lohr	Preliminary title of PhD thesis: “Essays on the impacts of a changing climate on migration and conflict”
Tobias Bergmann	Preliminary title of PhD thesis: “Soziale und ökologische Grenzen des Wachstums – Über die Rolle von Natur, Energie und Freizeit innerhalb planetarer Grenzen“
Zhixin Zhang	Preliminary title of PhD thesis: “Geospatial Artificial Intelligence for Urban Form Sensing and Sustainable Urban Planning”

FINISHED PhDs

- Author: **Johannes Bednar**
Title: The Carbon Removal Obligation: Beyond Emissions Trading to a Negative Carbon Economy
Submission: 2025
- Author: **Ira Irina Dorband**
Title: Political economy of climate change mitigation policies in the context of developing countries
Submission: June 2025
- Author: **Sidney Michilini**
Title: Essays on Climate and violence
Submission: April 2025
- Author: **Lorenzo Montrone**
Title: Structural economic change, poverty eradication and distributional effects of climate change mitigation
Submission: 2025
- Author: **Raavi Aggarwal**
Title: Possibilities and limitations for carbon pricing in developing countries
Submission: July 2024
- Author: **Leonard Missbach**
Title: Essays on Climate Policy Implementation
Submission: July 2024
- Author: **Simon Feindt**
Title: The Economics of Climate Change and Inequality: Assessing Distributional Impacts to Guide Climate Policy
Submission: March 2024
- Author: **Alkis Blanz**
Title: Essays on the macroeconomics of climate change and policy
Submission: 2024
- Author: **Emilie Rosenlund Soysal**
Title: Essays on Financial Market Failures and the Green Transition
Submission: July 2023
- Author: **Johanna Arlinghaus**
Title: Using price-based policy instruments: Essays in empirical environmental economics
Submission: May 2023
- Author: **Hannah Klauber**
Title: Air Pollution, Climate Change, and Human Health: Essays in Empirical Environmental Economics
Submission: April 2023
- Author: **Niccolò Manych**

Title: On the Political Economy of Coal Transitions - A multimethod Study
Submission: November 2022

Author: **Nils Ohlendorf**
Title: The Political Economy of Energy Transitions
Submission: March 2022

Author: **Anastasis Giannousakis**
Title: Optimal climate policy under socio-economic uncertainty
Submission: January 2022

Author: **Oliver Ruhnau**
Title: The Economics of Flexible Electricity Demand
Submission: Januar 2022

Author: **Sebastian Kraus**
Title: Building counterfactuals ex-post: Essays in empirical environmental and resource economics
Submission: November 2021

Author: **Kilian Raiser**
Title: Post-Paris: Understanding Pledge and Review and its Implications for International Cooperation on Climate Change
Submission: Fall 2021

Author: **Marcel Dorsch**
Title: Polycentric Sustainability Governance in the 21st Century as a Transformative Task
Submission: February 2021

Author: **Oliver Tietjen**
Title: On the way to climate neutrality? Intertemporal market and regulatory failures in the European Union's Emission Trading System and beyond
Submission: November 2020

Author: **Christina Roelfs**
Title: Carbon Pricing and Transfers – Feasible and Effective Multilevel Climate Policy in Federations
Submission: June 2020

Author: **Jason Jabbour**
Title: Global sustainability governance: Integrated scientific assessment at a critical inflection point
Carbon Pricing and Transfers – Feasible and Effective Multilevel Climate Policy in Federations
Submission: May 2020

Author: **Antoine Levesque**
Title: Demand-side Mitigation Policies: The Role of the Buildings Sector
Submission: April 2020

- Author: **Christoph von Stechow**
 Title: Climate Change Mitigation in the Context of Sustainable Development – New Insights, Challenges and Opportunities for Global Assessment Making
 Submission: November 2018
- Author: **Ulrich Kreidenweis**
 Title: The future of global land-use: Model-based assessment of policy options to reverse forest loss, mitigate climate change and safeguard biodiversity
 Submission: September 2018
- Author: **Christian Gambardella**
 Title: On the economics of real-time pricing in low-carbon electricity markets: Efficiency and feasibility in the presence of policy-induced variable renewable energy supply
 Submission: April 2018
- Author: **Christopher Bren d'Amour**
 Title: Urbanization and food systems
 Submission: March 2018
- Author: **Jennifer Gerard**
 Title: Stakeholder Engagement at the Science-Policy Interface, Analyzing Global Environmental Assessments and Deliberation Platforms
 Submission: November 2018
- Author: **Hauke Ward**
 Title: The Role of Efficient Technology for Achieving Climate Change Mitigation and Development
 Submission: June 2017
- Author: **Johanna Wehkamp**
 Title: Institutional and Fiscal Policies for Forest Conservation
 Submission: May 2017
- Author: **Fabian Joas**
 Title: Challenges of the Energiewende from a Policy Analysis Perspective: Understanding the goals and improving the policy instruments of Germany's energy transition
 Submission: September 2016
- Author: **Miodrag Stevanovic**
 Title: Direct and Indirect Climate Change Impacts in the Land-Use Sector
 Submission: August 2016
- Author: **Anne Zimmer**
 Title: Climate Policy in Developing Countries - Drivers, Policy Instruments and Implementation Challenges
 Submission: September 2016
- Author: **Jan Siegmeier**
 Title: Public Economics and Climate Change Mitigation: The Role of Rent Taxation and Infrastructure Policy
 Submission: May 2016

- Author: **Blanca Fernandez Milan**
Title: Making urban policies sustainable: long-term benefits of urban planning and fiscal policies
Submission: April 2016
- Author: **David Christian Klenert**
Title: Common Goods & Distribution: Public Finance and Environmental Policy in an Unequal World
Submission: March 2016
- Author: **Godefroy Grosjean**
Title: Reforming the European Union Emissions Trading System (EU ETS): An Institutional Perspective
Submission: March 2016
- Author: **Maximilian Franks**
Title: Rents, Taxes, and Distribution: Towards a New Public Economics of Climate Change
Submission: January 2016
- Author: **Anselm Schultes**
Title: At the Frontiers of Integrated Assessment of Climate Change: Distribution, Technology policy, and Land
Submission: February 2016
- Author: **Paul Nahmmacher**
Title: Strategies for a future European power system with high shares of renewable energy: A model-based analysis focusing on uncertainty
Submission: December 2015
- Author: **Linus Mattauch**
Title: Rent and Redistribution. The welfare implications of financing low-carbon public investment
Submission: March 2015
- Author: **Christoph Bertram**
Title: The effect of near-term climate policies on the achievability of ambitious long-term climate targets
Submission: February 2015
- Author: **Florian Humpenöder**
Title: Land-based climate change mitigation: modeling bioenergy production, afforestation and avoidance of deforestation
Submission: February 2015
- Author: **Markus Bonsch**
Title: Land and water for agriculture - future prospects and trade-offs
Submission: February 2015
- Author: **Falko Ueckerdt**
Title: Integrating variable electricity supply from wind and solar PV into power systems
Submission: May 2014

- Author: **Ulrike Kornek**
Title: Designing International Climate Agreements: An Economic Analysis of Free-riding Incentives
Submission: March 2014
- Author: **David Klein**
Title: Bioenergy Markets in a Climate Constrained World
Submission: March 2014
- Author: **Lion Hirth**
Title: The Economics of Wind & Solar Variability - How the Variability of Wind & Solar Power affect their Marginal Value, Optimal Deployment, and Integration Cost
Submission: March 2014
- Author: **Benjamin Bodirsky**
Title: Agricultural nitrogen pollution: the human food-print
Submission: March 2014
- Author: **Robert Pietzcker**
Title: Achieving stringent climate targets: An analysis of the role of transport and variable renewable energies using hybrid energy-economy-climate models
Submission: March 2014
- Author: **Jessica Strefler**
Title: Challenges for low stabilization of climate change: The complementarity of non-CO2 greenhouse gas and aerosol abatement to CO2 emission reductions
Submission: March 2014
- Author: **Odette Deuber**
Title: Metric choice for trading off short- and long-lived climate forcers – A transdisciplinary approach using the example of aviation
Submission: December 2013
- Author: **Sylvie Ludig**
Title: Renewable energy and CCS in German and European power sector decarbonization scenarios
Submission: January 2013
- Author: **Steffen Brunner**
Title: Climate policy, the state, and the problem credible commitment
Submission: September 2012
- Author: **Eva Schmid**
Title: On the Exploration of German Mitigation Scenarios
Submission: July 2012
- Author: **Thomas Präßler**
Title: Overcoming Barriers to Onshore and Offshore Wind Power Development – A Developers' Perspective on the Effect of Support Policies
Submission: October 2012

- Author: **Jan Steckel**
 Title: Developing Countries in the Context of Climate Change Mitigation and Energy System Transformation
 Submission: March 2012
- Author: **Martin Kowarsch**
 Title: “Refreshing Democracy” - Economic Assessments for Climate Policy in the Light of Pragmatist Philosophy
 Submission: July 2012
- Author: **Daniel Klingensfeld**
 Title: On Strategies for Avoiding Dangerous Climate Change: Elements of a Global Carbon Market
 Submission: December 2011
- Author: **Matthias Kalkuhl**
 Title: The Calculus of Climate Policy: Carbon Pricing and Technology Policies for Climate Change Mitigation
 Submission: December 2011
- Author: **Alexander Lorenz**
 Title: Uncertainty & Learning in Global Climate Analysis
 Submission: November 2011
- Author: **Markus Haller**
 Title: Climate change and transition processes in developing countries: Integration of renewable energy sources in evolving energy systems
 Submission: November 2011
- Author: **Matthias Schmidt**
 Title: Climate Policy under Uncertainty
 Submission: August 2011
- Author: **Michael Jakob**
 Title: Reframing International Climate Policy: Essays on Development Issues and Fragmented Regimes
 Submission: June 2011
- Author: **Michael Pahle**
 Title: Investments in Liberalized Electricity Markets and the Low-Carbon Energy Transition: A Mixed-method Analysis of the German Case
 Submission: June 2011
- Author: **Lavinia Baumstark**
 Title: Investment Strategies for Climate Change
 Submission: June 2011
- Author: **Christian Flachsland**
 Title: Towards a Global Carbon Market? Linking Systems, Adding Sectors
 Submission: December 2010

- Author: **Robert Marschinski**
Title: Climate Change Policy in a Second-Best World - An Analysis of Policy Options under Conditions of Partial Cooperation and Uncertainty
Submission: December 2010
- Author: **Michael Lüken**
Title: Distributive Impacts of Global Climate Change Mitigation - Effects of Technology, Emission Permit Allocation and Energy Trade
Submission: November 2010
- Author: **Kai Lessmann**
Title: Endogenous Technological Change in Strategies for Mitigating Climate Change
Submission: 2009
- Author: **Elmar Kriegler**
Title: Imprecise probability analysis for integrated assessment of climate change
Submission: 2005
- Author: **Nico Bauer**
Title: Carbon Capturing and Sequestration - An Option to Buy Time?
Submission: January 2005
- Author: **Katrin Gerlinger**
Title: Muster globaler anthropogener CO₂-Emissionen. Sozio-ökonomische Determinanten und ihre Wirkung
Submission: June 2004

FUNDING (selection)

- 2020 - 2026 ■ In his role as project chair, Ottmar Edenhofer secured a total of approx. EUR 59 million funding with Ariadne for six years. The project delivered science-based advice on transformation of European and German energy system and policy instruments like the EU ETS. Ariadne was extended for additional three years after successful evaluation in 2023

- since 2018 ■ As Director of PIK, Ottmar Edenhofer is responsible for a total of EUR 14.8 million annual institutional funding. In 2023 he secured additional institutional funding of EUR 3.8 million p.a. (“Strategischer Sondertatbestand”).

- 2012 - 2024 ■ As Managing Director of MCC, Ottmar Edenhofer was responsible for institutional funding totalling approx. EUR 30 million over a two-stage project period of 12 years.

- 2007 ■ Negotiated extension of institutional funding of PIK to remain in office equivalent to 10 permanent positions.

- 2007 - 2018 ■ Under Ottmar Edenhofer’s leadership, the Research Domain Sustainable Solutions acquired third-party funding totalling approx. EUR 22.6 million.

PROJECTS

Title: WPKS – Wissenschaftsplattform Klimaschutz
Duration: Juli 2024 bis Juni 2027
Budget: 894,746.50€ finanziert von BMFTR

Title: Verbundvorhaben Ariadne 2 – Evidenzbasiertes Assessment für die Gestaltung der deutschen Energiewende
Duration: Juni 2023 bis August 2026
Budget: 8,540,889.51 € finanziert von BMFTR

Title: FutureLab CERES – Political Economy for Inclusive Wealth Governance and Sustainability
Duration: January 2022 until December 2031
Budget: 10,000,000 € funded by Werner Siemens-Stiftung

Title: Verbundvorhaben Ariadne – Evidenzbasiertes Assessment für die Gestaltung der deutschen Energiewende
Duration: June 2020 until August 2026
Budget: 9,823,675 € funded by BMBF

Title: Energiewende-Navigationssystem zur Erfassung, Analyse und Simulation der systemischen Vernetzungen (ENavi)
Duration: October 2016 until September 2019
Budget: 1,600,000 € funded by BMBF

Title: Linking Climate and Development Policies - Leveraging International Networks and Knowledge Sharing (CD-Links)
 Duration: September 2015 until August 2019
 Budget: 613,511 € funded by EU, H2020

Title: Contextualizing Climate Engineering and Mitigation: Complement, Substitute or Illusion? (CEMICS)
 Duration: April 2014 until March 2017
 Budget: 110,950 € funded by DFG - Deutsche Forschungsgemeinschaft: Schwerpunktprogramm

Title: Institutionally and technologically consistent energy strategies for a decentral or centrally organized energy transition in Germany (De.zentral)
 Duration: September 2013 until August 2016
 Budget: 329,322 € funded by BMBF

Title: Economic Growth Impacts of Climate Change (ENGAGE)
 Duration: March 2016 until February 2019
 Budget: 980,843 € funded by Leibniz-Gemeinschaft

Title: Advanced Model Development and Validation for the Improved Analysis of Costs and Impacts of Mitigation Policies (ADVANCE)
 Duration: January 2013 until December 2016
 Budget: 1,301,540 € funded by EU

Title: Economic iNsTRuments to Achieve Climate Targets in Europe (ENTRACTE)
 Duration: September 2012 until August 2015
 Budget: 344,662 € funded by EU

Title: Sustainable Manufacturing – Globale Wertschöpfung nachhaltig gestalten (Head of sub-project A04, Collaborative Research Centre 1026)
 Duration: January 2012 until December 2015
 Budget: 287,394 € funded by DFG

Title: Cost of expanding Renewable Energy
 Duration: February until June 2012
 Budget: 44,536 € funded by German Federal Environment Agency (UBA)

Title: Assessing the Green Paradox (Green Paradox)
 Duration: October 2011 until September 2014
 Budget: 249,818 € funded by German Federal Ministry on Education and Research

Title: Low climate IMpact scenarios and the Implications of required Tight emission control Strategies (LIMITS)
 Duration: October 2011 until September 2014
 Budget: 573,000 € funded by EU

Title: Climate Policy and the Growth Pattern of Nations (CliPoN)
 Duration: September 2011 until August 2014
 Budget: 318,799 € funded by German Federal Ministry on Education and Research

Title: Climate Policy in a Reluctant World (CRew)
 Duration: September 2011 until August 2014
 Budget: 430,000 € funded by German Federal Ministry on Education and Research

Title: Impact quantification of global changes (Global IQ)
 Duration: August 2011 until July 2014
 Budget: 397,380 € funded by EU

Title: Promotionsvorhaben: Kooperative Klimapolitik nach Kopenhagen (Klimapolitik)
 Duration: June 2011 until May 2014
 Budget: 85,000 € funded by Kurt Lange Stiftung

Title: Energy scenarios for German nuclear phase-out (Scenarios on Nuclear Phase-Out Friedrich-Ebert-Stiftung)
 Duration: May until June 2011
 Budget: 35,000 € funded by Friedrich-Ebert Stiftung

Title: Promotionsvorhaben: Die Rolle nachfrageseitiger Energieeffizienz im Kontext kostenoptimaler Klimaschutzstrategien (Energieeffizienz)
 Duration: April 2011 until March 2014
 Budget: 85,000 € funded by Kurt Lange Stiftung

Title: Assessment of Climate Change Mitigation Pathways and Evaluation of the Robustness of Mitigation Cost Estimates (AMPERE)
 Duration: February 2011 until January 2014
 Budget: 706,680 € funded by EU

Title: Szenarien zur Darstellung der Machbarkeit von 2 Grad-Emissionsminderungs-szenarien - Technologien, Kosten, Potenziale - international/regional (UBA 2)
 Duration: January 2011 until March 2013
 Budget: 157,388 € funded by Umweltbundesamt (UBA)

Title: Enhancing Robustness and Model Integration for The Assessment of Global Environmental Change (ERMITAGE)
 Duration: December 2010 until November 2013
 Budget: 413,101 € funded by EU

Title: Klimaschutz, Entwicklung und Gerechtigkeit: Dekarbonisierung in Entwicklungs- und Schwellenländern (EntDekEn)
 Duration: August 2010 until July 2013
 Budget: 500,000 € funded by BMBF

Title: Visions of land use transitions in Europe (VOLANTE)
 Duration: January 2010 until April 2015
 Budget: 170,463 € funded by EU

Title: Globale Abschätzung der Auswirkungen von Landnutzungsänderungen auf Treibhausgasemissionen und Ökosystemare Dienstleistungen - Klima- und Landnutzungsszenarien (GLUES-RD3)
 Duration: January 2010 until December 2014
 Budget: 2,759,522 € funded by BMBF

Title: WGL Initiative for Research and Innovation, “ZEW Pakt” (Economy of an integrated and long-term climate and energy policy)
 Duration: January 2010 until December 2012
 Budget: 325,000 €

Title: Roadmaps towards Sustainable Energy Futures (RoSE)
 Duration: January 2010 until December 2012
 Budget: 545,000€ funded by Stiftung Mercator

Title: Climate policy outreach on integrated assessment modeling (EuropeAid)
 Duration: January 2010 until December 2012
 Budget: 70,500 € funded by the European Commission

Title: Potsdamer Forschungs- und Technologieverbund zu Naturgefahren, Klimawandel und Nachhaltigkeit (Progress), Teilprojekt D1: Systemanalytische Ansätze in der Risikoforschung
 Duration: November 2009 until October 2014
 Budget: 193,447 € funded by BMBF

Title: Forum on Economics of Climate Change - Post-Copenhagen (GTZ Post-Copenhagen)
 Duration: December 2009 until March 2010
 Budget: 10,000 € funded by the GTZ

Title: Car Industry, road Transport and an International Emission trading Scheme - policy options (CITIES)
 Duration: November 2009 until December 2010
 Budget: 80,000 € funded by BMW

Title: Learning Rates of Low Carbon Technologies (Learning Rates)
 Duration: November 2009 until March 2010
 Budget: 40,000 € funded by EU

Title: Forum on Economics of Climate Change – Synthesebericht (GTZ Synthesebericht)
 Duration: November until December 2009
 Budget: 30,000 € funded by the GTZ

Title: Europäische Vulnerabilitätskartierung für den SOER 2010 (SOER 2010)
 Duration: July 2009 until December 2009
 Budget: 39,911 € für PIK funded by Umweltbundesamt (UBA)

Title: European Network engaging Civil society in Low Carbon scenarios (ENCI-LowCarb)
 Duration: April 2009 until October 2011
 Budget: 110,000 € funded by EU

Title: Wissenschaftlerraustausch PIK-Beijing
 Duration: April 2009 until September 2009
 Budget: 25,000 € funded by der Mercator Foundation

Title: Kosten- und Modellvergleich langfristiger Klimaschutzpfade
 Duration: March 2009 until December 2010
 Budget: 130,000 € funded by Umweltbundesamt (UBA)

- Title: China und die globale Klimapolitik: Perspektiven und Herausforderungen (China Klimapolitik)
Duration: February 2009 until September 2009
Budget: 17,000 € funded by Gesellschaft für Technische Zusammenarbeit (GTZ)
- Title: Growth and Sustainability - Towards a Global Green Recovery - recommendations for immediate G20 action (Growth and Sustainability)
Duration: February/March 2009
Budget: 55,000 € funded by Auswärtiges Amt
- Title: Auswirkung weltweit expandierter Biomasse-Nutzung auf Ökonomie, Klima und Biodiversität der Erde (Bio Energy Planet)
Duration: January 2009 until December 2011
Budget: 950,000 €
- Title: China Economics of Climate Change - towards a low carbon economy
Duration: October 2008 until April 2009
Budget: 100,000 € funded by the Stockholm Environment Institute (SEI)
- Title: Recent scientific findings on climate change: what is new since the finalization of the IPCC fourth assessment report (ECOFYS)
Duration: August/September 2008
Budget: 12,500 € for PIK funded by the European Commission
- Title: Technical Support Unit für den Co-Vorsitzenden der Arbeitsgruppe III des Weltklimarates IPCC (IPCC-TSU)
Duration: September 2008 until September 2015
Budget: 5,985,440 € funded by BMBF
- Title: Voraussetzungen zur Verknüpfung von regionalen Emissionshandelssystemen (Regionale Emissionshandelssysteme)
Duration: October 2007 until December 2007
Budget: 20,000 € by the Federal Foreign Office of Germany
- Title: Kosteneffizienter Ausbau der Erneuerbaren Energien
Duration: October 2007 until September 2010
Budget: 180,000 € funded by Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit (BMU)
- Title: Report on Energy and Climate Policies in Europe (RECIPE)
Duration: October 2007 until September 2009
Budget: 500,000 € funded by Allianz und WWF
- Title: Klimawandel und weltweite Armut: Klimapolitik als Baustein einer gerechten Globalisierung und nachhaltigen Armutsbekämpfung
Duration: June 2007 until May 2010
Budget: 520,000 € funded by Misereor und MunichRe Foundation
- Title: Akteurshandeln und langfristige Investitionsentscheidungen im Klimaschutz (ALICE)
Duration: March 2007 until May 2010
Budget: 295,000 € funded by BMBF

Title: Wege zu einem globalen CO₂ Markt (Globaler CO₂ Markt)
Duration: December 2006 until February 2007
Budget: 20.000 € funded by the Federal Foreign Office of Germany

Title: A Global Contract on Climate Change (CONTRACT)
Duration: June 2006 until December 2009
Budget: 80,000 € funded by Ökosoziales Forum

Title: What poor information can tell (WIT)
Duration: June 2006 until May 2009
Budget: 210,000 €

Title: Adaptation and Mitigation Strategies: Supporting European Climate Policy (ADAM)
Duration: March 2006 until February 2009 (3 years)
Budget: 700,000 € funded by EU

Title: Cost-optimised Climate Stabilisation (OPTIKS)
Duration: July 2005 until May 2007
Budget: 200,000 € funded by the Federal Environmental Agency (UBA)

Title: Cost-efficient Climate Stabilisation (RECCS)
Duration: July 2005 until April 2007
Budget: 150,000 € funded by the Federal Environmental Agency (UBA)

Title: Economic and Technological Dimensions of Stabilising the Atmospheric Greenhouse Gas Concentration (IMCP)
Duration: August 2004 until December 2005
Budget: 30,000 € funded by Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit (BMU)

Title: Ocean sequestration of CO₂ and the transformation of the energy system (Ocean Sequestration)
Duration: May 2003 until October 2006
Budget: 661,000 € funded by Volkswagenstiftung

Title: Modelling, Reflecting and Communicating Possible Futures of Europe in the Context of Global Change (EUROPA)
Duration: October 2000 until September 2005
Budget: 1,970,046 € funded by BMBF

TEACHING

- 2026 The Economics of Climate Change, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2025/26 The Economics of Climate Policy, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2025 The Economics of Climate Change, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2024/25 The Economics of Climate Policy, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2024 The Economics of Climate Change, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
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- 2022/23 The Economics of Climate Policy, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2022 The Economics of Climate Change, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2021/22 The Economics of Climate Policy, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2021 The Economics of Climate Change, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2020/2021 The Economics of Climate Policy, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2020 The Economics of Climate Change, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
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- 2016 The Economics of Climate Change, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)

- 2015/2016 The Economics of Climate Policy, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2015 The Economics of Climate Change, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2014/2015 Climate change, Land Use and Infrastructures, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2014 The Economics of Climate Change, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2013/2014 Climate change, Land Use and Infrastructures, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2013 Green Growth and New Models of Prosperity - Fairytale or Strategy?, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2012/2013 Climate change, land use and infrastructures, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2012 The Economics of Climate Change; Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2011/2012 Climate Change, Infrastructures and Urban Economics, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2011 The Economics of Climate Change, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2010/2011 Geographic Economics, Agglomeration and Climate Change, Lecture, Technische Universität Berlin (Berlin Institute of Technology)
- 2010 The Economics of Climate Change, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2009/2010 Climate Change and Geographical Economics, Lecture, Technische Universität Berlin (Berlin Institute of Technology)
- Juli 2009 The Economics of Atmospheric Stabilization and Towards a Global Contract on Climate Change, Summer School on Global Sustainability 2009, Santa Fe, USA
- 2009 The Challenge of Climate Change: Concepts, Methods, Solutions, Lecture, Technische Universität Berlin (Berlin Institute of Technology)
- 2008/2009 Einführung in die Ökonomie des Klimawandels - Apocalypse Now or No?", Lecture, Technische Universität Berlin (Berlin Institute of Technology)
- 2008 Climate change and what to do about it mit Peter Lemke, Lecture, Alpbach Summer School, 14- 21 August 2008, Alpbach, Austria
- 2006 Mindtreks Summer School, Lecture, 10-16 September 2006, San Cassiano, Italy. Senior faculty member mit Hans-Joachim Schellnhuber.
- 2006 Social-Cost-Benefit Analysis and the solution of global problems. with C. Kemfert, Humboldt-Universität zu Berlin
- 2005/2006 Inverse Methods in Climate Science and Economics. Lecture, with H. Held, S. Rahmstorf, Potsdam University
- 2005 Models of climate and energy policy mit C. Kemfert, Humboldt-Universität zu Berlin
- 2004/2005 Regulation of innovation in energy markets, Lecture mit H. Held, C.C. Jaeger, Potsdam University

- 2004 On the design of instruments for economic policies under uncertainty, Lecture mit H. Held, C. C. Jaeger, Potsdam University
- 2003/2004 Roadmaps towards a sustainable energy and climate policy, Lecture mit H. Held, C. C. Jaeger, Potsdam University
- 2003 Introduction to the Earth System, Lecture mit H. Held, June 2003 Max Planck Research School on Earth System Modelling, MPI Hamburg