

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
- Director of the Mercator Research Institute on Global Commons and Climate Change (MCC), work of MCC received "excellent" evaluation by independent scientific committee
- 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 formed 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). The work of the MCC 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 received the Arthur Burkhardt-Prize for the interdisciplinary orientation of his research.

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 groundbreaking and provided essential information for decision makers. On March 24, 2022, Edenhofer was appointed by the EU to the European Environment Agency's newly established European Scientific Advisory Board on Climate Change. The board will provide independent scientific advice and produce reports that record the extent to which EU policy is in line with the 2021 European Climate Change Act and the EU's commitments under the Paris Agreement.

Ottmar Edenhofer's research influences political decision making. The working visit of Federal Chancellor Merkel and Federal Chancellery Minister Braun to the Potsdam Institute for Climate Impact Research in 2019 once again proved the high relevance and excellence of the policy advice provided by Edenhofer. Edenhofer has succeeded in providing excellent policy advice. His expertise is regularly requested by top decision makers. In Germany these included in the past years, for example, Finance Minister and Vice Chancellor Scholz, Foreign Minister Maas, Minister of Science of Brandenburg Schüle, the party leaderships of the CDU, FDP and the Greens as well as representatives of the Bundesbank. The Federal Government appointed him, together with the lawyer Sabine Schlacke, Chair of the Climate Protection Science Platform, which has the mandate to monitor the implementation of the climate package and to make respective proposals. On the international stage, Edenhofer is in regular contact with the European Commission, government representatives and institutions such as

the European Central Bank and the World Bank. In 2020, he met amongst others with the Finance Ministers of the Eurogroup. In December 2020, Ottmar Edenhofer was appointed a consultant of the Vatican's "Dicastery for Promoting Integral Human Development", created by Pope Francis a few years ago. The dicastery's mission is to strengthen justice for refugees and stateless people who have had to leave their homes due to violence, economic crises or natural disasters, as well as promoting justice for the sick and poor.

Edenhofer's expertise is also in high demand in the business world: He advises f. ex. the world's largest automobile manufacturer Volkswagen, railway company Deutsche Bahn, 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". Further, he is 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.

The FAZ ranked Edenhofer in 2019 and 2020 among the 10 most influential economists in Germany, in 2021 he was ranked on place 15. In 2018, 2020 and 2021, 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. He has published articles in Science, PNAS, Nature, Nature Climate Change, European Economic Review, Resource and Energy Economics, Energy Economics, Macroeconomic Dynamics, World Development, Journal of Environmental Economics and Management as well as other peer-reviewed journals and authored a number of books. His publications address the design of instruments for climate and energy policy, questions of growth, technological change and development, public finance, welfare economics, distributional effects of climate policy instruments, game theoretic aspects of designing international agreements, long-term scenarios of the climate and energy system, mitigation costs and mitigation strategies, as well as the science-policy interface. His work has been heavily cited, which is illustrated by an h-index of 52 in Scopus, 49 in Web of Science and 77 in Google Scholar. Edenhofer's work has been picked up e.g. by The New York Times, the Economist, China Daily Nature, Der Spiegel, ARD, ZDF and Deutschlandfunk. He frequently contributes to major media publications such as DIE ZEIT, Süddeutsche Zeitung and Frankfurter Allgemeine Zeitung.

Edenhofer supervised 52 successfully completed PhD projects and currently supervises 23 PhD students. His former PhD students received prestigious prizes for their dissertations and some of them have been appointed to professorships in the meantime.

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 2018 — Director of the Potsdam Institute for Climate Impact Research
- since 2012 — 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

- Member of the Advisory Board of Stiftung Klima-Wirtschaft
- Chair of the *European Scientific Advisory Board for Climate Change* of the European Environment Agency
- 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” of the German Federal Government
- Member of the Sustainability Advisory Board of the state of Brandenburg
- 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
- 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”
- Co-chair of the *Food System Economics Commission (EAT)*
- Member of the *High-Level Advisory Group on Sustainable and Inclusive Recovery and Growth (HLAG)*
- Member of the *Volkswagen Sustainability Council*
- 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”
- 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) until 2018

Scientific Functions and Editorships

- 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 Council, LSRI – Laudato Sí Research Institute
- Member of the Scientific Advisory Board, EUREF-Institute Berlin
- Member of the Forschungsforum Energiewende [Research Forum Energy Transition]
- Co-editor of REEP Review of Environmental Economics and Policy (ranked 6th in Environmental Studies and 15th in Economics according to the 2015 Journal Citation Reports by Thomson Reuters)
- Member of the Working Group for the Development of a Guideline for Political and Societal Consultancy in the Field of Environmental Sciences, Leibniz Association
- Member of the plenary assembly of the Central Committee of German Catholics
- Member of the Vatican Advisory Group, Dicastery for Promoting Integral Human Development
- Member of the Advisory Board of the DemoUpCARMA Project, ETH Zurich

Awards and Prizes

- 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 and 2021, 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

- Rooft, 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.
- Strefler, J., Luderer, G., Bauer, N., Kriegler, E., Pietzcker, R. C., Giannousakis, A., & Edenhofer, O. (2021): Alternative carbon price trajectories can avoid excessive carbon removal. *Nature Communications*, Vol. 12, 2264, doi: 10.1038/s41467-021-22211-2.
- 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.
- Steckel, J., Hilaire, J., Jakob, M., & Edenhofer, O. (2020): Coal and Carbonization in Sub-Saharan Africa. *Nature Climate Change*. Vol. 10, 83-88, doi: 10.1038/s41558-019-0649-8.
- 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.
- Creutzig, F., Bren d'Amour, C., 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. Cambridge: Cambridge University Press (Volume 2, 2019 e1), doi: 10.1017/sus.2018.15.
- 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 INTEREST

- 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

2023

ISI Publications

Liu, L., Jiang, H.-D., Liang, Q.-M., Creutzig, F., Liao, H., Yao, Y.-F., Qian, X.-Y., Ren, Z.-Y., Qing, J., Cai, Q., Edenhofer, O., Wei, Y.-M. (2023): Carbon emissions and economic impact of EU's embargoing Russian fossil fuels. *Nature Climate Change*, doi: 10.1038/s41558-023-01606-7.

Non-ISI Publications

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

2022

ISI Publications

Amberg, M., aus dem Moore, N., Bekk, A., Bergmann, T., Edenhofer, O., Flachsland, C., George, J., Haywood, L., Heinemann, M., Held, A., Kalkuhl, M., Kellner, M., Koch, N., Luderer, G., Meyer, H., Nikodinoska, D., Pahle, M., Roolfs, C. & Schill, W. (2022): Reformoptionen für ein nachhaltiges Steuer- und Abgabensystem: Wie Lenkungssteuern effektiv und gerecht für den Klima- und Umweltschutz ausgestaltet werden können. *Perspektiven der Wirtschaftspolitik*, doi: 10.1515/pwp-2021-0051.

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*, 116, 202730, doi: 10.1016/j.jeem.2022.102730.

Pahle, M., Tietjen, M., Osorio, S., Egli, F., Steffen, B., Schmidt, T., Edenhofer, O. (2022): Safeguarding the energy transition against political backlash to carbon markets. *Nature Energy*, 7, 290-296, doi: 10.1038/s41560-022-00984-0.

Edenhofer, O., Klein, C., Lessmann, K., Wilkens, M. (2022): Financing the transformation: a proposal for a credit scheme to finance the Paris Agreement. *Climate Policy*, 22:6, 788-797, doi: 10.1080/14693062.2022.2075820.

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

Frondel, M., Helmers, V., Mattauch, L., Pahle, M., Sommer, S., Schmidt, C., Edenhofer, O. (2022): Akzeptanz der CO₂-Bepreisung in Deutschland: Die große Bedeutung einer Rückverteilung der Einnahmen. *Perspektiven der Wirtschaftspolitik*, 23, 1, 49-64, doi: 10.1515/pwp-2021-0050.

Non-ISI Publications

Kalkuhl, M., Max, F., Gruner, F., Lessmann, K., Edenhofer, O. (2022): Pigou's Advice and Sisyphus' Warning: Carbon Pricing with Non-Permanent Carbon-Dioxide Removal. *CESifo Working Paper No. 10169*, doi: 10.2139/ssrn.4315996.

Luderer, G., Bartels, F., Blesl, M., Burkhardt, A., Edenhofer, O., Fahl, U., Gillich, A., Herbst, A., Hufendiek, K., Kaiser, M., Kittel, L., Koller, F., Kost, C., Pietzcker, R. C., Rehfeldt, M., Schreyer, F., Seibert, D., Sievers, L. (2022): Deutschland auf dem Weg aus der Gaskrise: Wie sich Klimaschutz und Energiesouveränität vereinen lassen. Ariadne-Kurz Dossier, Potsdam Institute for Climate Impact Research, 40 p., doi: 10.48485/pik.2022.004.

Sörgel, B., Kriegler, E., Bertram, C., Crawford, M., Delsa, L., Franks, R. M., Humpenöder, F., Leip, D., Lessmann, K., Popp, A., Taconet, N., Weindl, I., Edenhofer, O. (2022): Joint implementation of the Sustainable Development Goals, climate change mitigation and biosphere protection: Policy options for tackling multiple crises simultaneously. Policy paper by the Potsdam Institute for Climate Impact Research, doi: 10.48485/pik.2022.003.

Edenhofer, O. (2022): Le rôle de la science dans la politique climatique des États. Allemagne d'aujourd'hui, 239, 178-182, doi: 10.3917/all.239.0178.

Kalkuhl, M., Flachsland, C., Knopf, B., Amberg, M., Bergmann, T., Kellner, M., Stüber, S., Haywood, L., Rooffs, C., Edenhofer, O. (2022): Effects of the Energy Price Crisis on Households in Germany: Socio-political challenges and policy options. Mercator Research Institute on Global Commons and Climate Change (MCC), Berlin, 37 p.

Edenhofer, O., Kosch, M., Pahle, M., Zachmann, G. (2022): Four ways to make the European Commission's carbon pricing proposal fitter for 55. In: Tagliapietra, S., Wolff, G., Zachmann, G. (eds.): Greening Europe's post-COVID-19 recovery, Bruegel Blueprint Series 32, 120-133.

Pahle, M., Kosch, M., Knopf, B., Flachsland, C., Edenhofer, O. (2022): Eckpunkte und no-regret Maßnahmen für die Weiterentwicklung der CO₂-Bepreisung auf deutscher und europäischer Ebene. Ariadne-Hintergrund, 14 p.

Edenhofer, O., Kosch, S., Jütte, K. (2022): "Moral ist eine knappe Ressource": Gespräch mit dem Klimaökonom Ottmar Edenhofer über Klimaclubs, CO₂-Preise und die Verantwortung der Kirchen angesichts notwendiger Veränderungen in der Klimakrise. Zeitzeichen, 23(2), 40-43.

Edenhofer, O. (2022): Weltklimarat (Intergovernmental Panel on Climate Change, IPCC). In: Oberreuter, H. (ed.), Volk - Zweites Vatikanisches Konzil, (Staatslexikon, 6), Herder, 8. Auflage, 187-189.

2021

ISI Publications

Gaupp, F., Ruggeri Laderchi, C., Lotze-Campen, H., DeClerck, F., Bodirsky, B. L., Lowder, S., Popp, A., Kanbur, R., Edenhofer, O., Nugent, R., Fanzo, J., Dietz, S., Nordhagen, S., Fan, S. (2021): Food system development pathways for healthy, nature-positive and inclusive food systems. Nature Food, 2, 12, 928-934, doi: 10.1038/s43016-021-00421-7.

Schultes, A., Piontek, F., Sörgel, B., Rogelj, J., Baumstark, L., Kriegler, E., Edenhofer, O., Luderer, G. (2021): Economic damages from on-going climate change imply deeper near-term emission cuts. Environmental Research Letters, Vol. 16:10, doi: 10.1088/1748-9326/ac27ce.

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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)

- 2012 - 2024 ■ As Managing Director of MCC, Ottmar Edenhofer is responsible for institutional funding totalling approx. EUR 30 million over a two-stage project period of 12 years. Under his leadership, additional third-party funds totalling approx. EUR 2.3 million (up to and including 2019) were raised.
- 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: Verbundvorhaben Ariadne – Evidenzbasiertes Assessment für die Gestaltung der deutschen Energiewende
Duration: June 2020 until May 2023
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: Wissenschaftler austausch 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

- 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)
- 2019/2020 The Economics of Climate Policy, Lecture and Tutorial, Technische Universität Berlin (Berlin Institute of Technology)
- 2019 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