Hertie School Spring Semester 2024

Course Syllabus

GRAD-E1213: Advanced Climate Policy

1. General information

Course Format	Onsite
Instructor(s)	Prof. Dr. Christian Flachsland
Instructor's e-mail	flachsland@hertie-school.org
Assistant	Alwine Hoppe, hoppe@hertie-school.org
Instructor's Office Hours	Please email Alwine Hoppe

Link to Study, Examination and Admission Rules and MIA, MDS and MPP Module Handbooks

For information on **course room, times and session dates,** please consult the Course Plan on *MyStudies*.

Instructor Information:
Christian Flachsland is Professor of Climate Policy and Founding Director of the Centre for Sustainability at the Hertie School. He is also a Research Fellow at the Mercator Research Institute on Global Commons and Climate Change (MCC), where he previously led the "Governance" group. His research focuses on the design, governance, and political economy of climate and energy policy. He coordinates the research on governance in the Ariadne project, a major research consortium, funded by the German Federal Ministry of Education and Research (BMBF) and tasked with assessing climate policy options for Germany and Europe. He was a contributing author to the Fifth Assessment Report on the Mitigation of Climate Change by the IPCC. This term Christian teaches the following courses: Advanced Climate Policy and Emissions Pricing (with Lion Hirth).

2. Course Contents and Learning Objectives

Course contents:
This class introduces students to key concepts and topics in the field of contemporary climate policy. We focus on public policies for mitigating climate change, with EU climate policy serving as the main, albeit not the only, case study. The class draws heavily on economics and political science concepts but remains non-formal throughout (no calculus required). The first part of the class (sessions 1-4) introduces the key physical, economic, technological, welfare, and political dimensions of climate change policy. Students learn core analytical frameworks, concepts, and topics. The second part (sessions 5-8) offers a deep dive into the analysis and design of domestic climate policy instruments and institutions, providing an overview of the field as well as introductions into the relevant economics and political science perspectives. The final part (Sessions 9-12) introduces international climate policy, a discussion of recent developments and upcoming challenges in EU climate policy, and student teams' case study project presentations.

Grading tools include one policy brief, a mid-term exam, student presentations (and a first draft), and a final paper.

Main learning objectives:

Students will develop a deep knowledge of frameworks, concepts, and key topics required for analyzing and understanding public policies for climate policy. They will learn how to apply economic and political science tools to analyse real-world problems in the transformation to greenhouse gas emissions neutrality.

Target group:
Students with a strong interest in the field of climate policy. This is a reading-intensive class geared towards preparing students interested in working in this (or adjacent) policy field(s).

Teaching style:
A combination of reading (a significant volume of) introductory and state-of-the-art analytical texts, pre-recorded and in-class lectures introduces basic concepts and information about key climate change policy topics. In-class lectures are punctuated and followed by discussions of the learning contents, related topics, readings and real-world policy developments. Several sessions draw on applied economic concepts, but their treatment remains non-formal (no calculus required for grading-relevant readings and exercises). In-class group debates, case study project presentations and discussions are intended to foster exchange among students. The policy brief, group presentations and in-class debates are designed to enhance the students' ability to research topics in a concise and timely manner using a variety of resources, to effectively present material in written and oral formats, and to develop their teamwork management skills. The mid-term exam offers an opportunity to review and discuss key concepts taught in this class.

Prerequisites:
Strong interest in climate policy.

Diversity Statement:
Respect for diversity and aiming for inclusion: It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength and benefit. It is my intent to present materials and activities that are respectful of diversity: gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture. I would also like to help create an inclusive classroom for everyone. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally or for other students or student groups.

3. Grading and Assignments

Composition of Final Grade:

Assignment 1: Policy Brief	Deadline: 1st assignment provided in week 1, due in time for class in week 3, on 27.02.2024 at 11:00 am	Via Moodle	15 %
Assignment 2: Mid-term exam	Date tbd, 60 minutes	Onsite	35 %

Assignment 3: Draft group presentation outline	Deadline: at least 2 weeks prior to presentation	Via email 24-hrs prior to meeting with instructor	5 %
Assignment 4: Group Presentation	Sessions 11 & 12	In-class	10 %
Assignment 5: Final Paper	Date: 22.05.2024, 6pm	Via Moodle	35 %

Grading is based on one policy brief (15%); a mid-term exam (35%); a draft group presentation outline (5%); a presentation (10%); and a final paper (35%).

Assignment Details

Assignment 1 – Policy Brief
Students are confronted with a climate policy problem and are asked to develop a 1.000-word policy brief analyzing the problem and suggesting actionable options. The assignment is handed out in the first session and is due two weeks later.

Assignment 2 – Mid-term exam
Mid-term exam, 60 min. You explain and apply concepts from required readings and lectures to demonstrate your understanding of them.

Assignment 3 – Presentation outline
Student teams are required to consult with the instructor regarding the orientation and outline of their presentation at least two weeks prior to the presentation, better earlier. Students are responsible for scheduling this meeting well in advance. Meeting slots are proposed by the instructor. Students are expected to send a 1-2-page outline of the presentation 24hrs prior to the meeting (will be graded); a presentation draft is very useful. Details on scheduling meetings will follow in class.

Assignment 4 – Group presentation
Students will choose group presentation topics from suggested case study options. Proposing topics is also possible but needs to be coordinated with and confirmed by the instructor. Allocation of students to their topic will take place early in the semester to facilitate preparation. The presentations will take place in Sessions 11 and 12.

Assignment 5 – Final Paper
Student teams write a policy paper with max. 2.500 words per student (e.g. a group of three students would write a 7.500-word paper). The policy paper topics and questions addressed are largely identical with those of the presentations. The mandatory meetings for preparing presentations can also be used for discussing the paper outline. Students can opt for receiving one joint grade, or clearly indicate which student wrote which distinguishable part of the joint paper to receive separate grades. Submission of the policy paper via Moodle by 22.05.2024, 6pm.

Late submission of assignments: For each day the assignment is turned in late, the grade will be reduced by 10% (e.g. submission two days after the deadline would result in 20% grade deduction).

Attendance: Students are expected to be present and prepared for every class session. Active participation during lectures and seminar discussions is essential. If unavoidable circumstances arise which prevent attendance or preparation, the instructor should be advised by email with as much advance notice as possible. Please note that students cannot miss more than two out of 12 course sessions. For further information please consult the Examination Rules §10.

Academic Integrity: The Hertie School is committed to the standards of good academic and ethical conduct. Any violation of these standards shall be subject to disciplinary action. Plagiarism, misuse of AI, free riding in group work, and other deceitful actions are not tolerated. See Examination Rules §16, the Hertie Plagiarism Policy, and the Hertie Guidelines for Artificial Intelligence Tools.

Compensation for Disadvantages: If a student furnishes evidence that he or she is not able to take an examination as required in whole or in part due to disability or permanent illness, the Examination Committee may upon written request approve learning accommodation(s). In this respect, the submission of adequate certificates may be required. See Examination Rules §14.

Extenuating circumstances: An extension can be granted due to extenuating circumstances (i.e., for reasons like illness, personal loss or hardship, or caring duties). In such cases, please contact the course instructor and Examination Office *in advance* of the assignment deadline.

4. General Readings

Stern, N. (2006). *Stern Review. The Economics of Climate Change*. Executive Summary. 1-27.

Wagner, Gernot, and Martin L. Weitzman. 2015. *Climate Shock: The Economic Consequences of a Hotter Planet*. Princeton: Princeton University Press.

Nordhaus, William D. 2015. *The Climate Casino: Risk, Uncertainty, and Economics for a Warming World*. New Haven London: Yale University Press.

UNEP (2023): Emissions Gap Report 2023.

Delbeke, J. & P. Vis (2019): Towards a Climate Neutral Europe. (e-book link)

5. Course Sessions and Readings

All course readings can be accessed on the course Moodle page.

Session 1: The climate problem at a glance	
Required Readings	Bernauer, T. 2013. Climate Change Politics. *Annual Review of Political Science* 16. 421-448. Stern, N. 2006. *Stern Review. The Economics of Climate Change*. Executive Summary. 1-27.
Optional Readings	Heal, Geoffrey. 2017. 'The Economics of the Climate'. *Journal of Economic Literature* 55(3): 1046–63. Weitzman, Martin L. 2015. 'Book Review—A Review of William Nordhaus' The Climate Casino: Risk, Uncertainty, and Economics for a Warming World'. *Review of Environmental Economics and Policy* 9(1): 145–56.

Optional podcasts	Nobel Laureate William Nordhaus: The Economics of Climate Change Minghao Qiu: Introduction to Economics and Policy of Climate Change: How Will You Design a Climate Policy? Robert Pindyck: Averting and Adapting to Climate Change Martin Weitzman: The Problem from Hell

Session 2: Climate Change Physics and Impacts	
Required Readings	Flachsland & Kersten. 2024a: Introduction to Climate Change Physics. Flachsland & Kersten. 2024b: Introduction to Climate Change Impacts.
Optional Readings	*IPCC, 2023: Climate Change 2023: Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, H. Lee and J. Romero (Eds.)]. IPCC, Geneva, Switzerland.* First. Executive Summary Dessler, Andrew E. 2021. *Introduction to Modern Climate Change*. 3rd edition. Cambridge: Cambridge University Press, Chapters 3 and 4 Otto, Friederike E.L. 2023. 'Attribution of Extreme Events to Climate Change'. *Annual Review of Environment and Resources* 48(1): 813–28. McSweeney, Robert, and Zeke Hausfather. 2018. 'Q&A: How Do Climate Models Work?' *Carbon Brief*. Tziperman, Eli. 2022. *Global Warming Science: A Quantitative Introduction to Climate Change and Its Consequences*. Princeton: Princeton University Press, Chapter 2 and one chapter of your choosing on the type of impact you are most interested in Hsiang, Solomon, and Robert E. Kopp. 2018. 'An Economist's Guide to Climate Change Science'. *Journal of Economic Perspectives* 32(4): 3–32.
Optional podcasts	Climate Science 101: Fundamentals of Climate Science. 2017. Greenhouse Effect, Senate Environment and Public Works Committee, December 10, 1985 (Carl Sagan).

Session 3: Global net zero GHG transition	
Required Readings	Flachsland & Kersten. 2024c: Global net zero GHG transition pathways
Optional Readings	UNEP (2023a) Exec. Summary UNEP (2023b) Exec. Summary IEA (2023) Exec. Summary Levin et al 2023: What Does "Net-Zero Emissions" Mean? 8 Common Questions, Answered. World Resources Institute blog Gillingham, Kenneth, and James H. Stock. 2018. 'The Cost of Reducing Greenhouse Gas Emissions'. *Journal of Economic Perspectives* 32(4): 53–72. Baker, Erin, Meredith Fowlie, Derek Lemoine, and Stanley S. Reynolds. 2013. 'The Economics of Solar Electricity'. *Annual Review of Resource Economics* 5(1): 387–426.

	Roser, Max. 2023. 'Energy Poverty and Indoor Air Pollution: A Problem as Old as Humanity That We Can End within Our Lifetime'. *Our World in Data*. (December 11, 2023). IPCC (2022c)
Optional Podcasts	'Greg Nemet on Technological Change and How Solar Became Cheap'. 2022.

Session 4: Climate change politics	
Required Readings	Brunner, Steffen, Christian Flachsland, and Robert Marschinski. 2012. 'Credible Commitment in Carbon Policy'. *Climate Policy* 12(2): 255–71. Jacobs, Alan M. 2016. 'Policy Making for the Long Term in Advanced Democracies'. *Annual Review of Political Science* 19(1): 433–54. Drews, Stefan. 2021. 'Public Support for Climate Policy'. In *Research Handbook on Environmental Sociology*, Edward Elgar Publishing, 237–49.
Optional Readings	Kennard, Amanda. 2020. 'The Enemy of My Enemy: When Firms Support Climate Change Regulation'. *International Organization* 74(2): 187–221. Dechezleprêtre, Antoine et al. 2022. *Fighting Climate Change: International Attitudes toward Climate Policies*. Paris: OECD. Aklin, Michaël, and Johannes Urpelainen. 2013. 'Political Competition, Path Dependence, and the Strategy of Sustainable Energy Transitions'. *American Journal of Political Science* 57(3): 643–58. Schaffer, Lena Maria. 2021. 'The Politics of Green Taxation'. In *Handbook on the Politics of Taxation*, Edward Elgar Publishing, 208–27. Beiser-McGrath, Liam F. 2023. 'Policy Conflict between Political Elites Shapes Mass Environmental Beliefs'. *Electoral Studies* 85: 102645. Gaikwad, Nikhar, Federica Genovese, and Dustin Tingley. 2022. 'Creating Climate Coalitions: Mass Preferences for Compensating Vulnerability in the World's Two Largest Democracies'. *American Political Science Review* 116(4): 1165–83. Gazmararian, Alexander F., and Dustin Tingley. 2023. *Uncertain Futures: How to Unlock the Climate Impasse*. New York: Cambridge University Press, Chapters 2 and 5. Kelsey, Nina. 2018. 'Industry Type and Environmental Policy: Industry Characteristics Shape the Potential for Policymaking Success in Energy and the Environment'. *Business and Politics* 20(4): 615–42. Schaffer, Lena Maria. 2023. 'Who's Afraid of More Ambitious Climate Policy? How Distributional Implications Shape Policy Support and Compensatory Preferences'. *Environmental Politics*: 1–24. Lerner, Michael, and Iain Osgood. 2023. 'Across the Boards: Explaining Firm Support for Climate Policy'. *British Journal of Political Science* 53(3): 934–57. Mildenberger, Matto. 2020. *Carbon Captured: How Business and Labor Control Climate Politics*. Boston: MIT Press, Chapters 1 and 2.

Optional Podcasts	Jean Tirole: The Political Economy of Climate Change Ottmar Edenhofer, David G.Victor, and Danny Cullenward: Carbon Pricing: Guiding instrument of climate policy? Jason Furman: The Economics of Green Industrial Policy Jesse Jenkins: Diving further into the Inflation Reduction Act: Part One Jesse Jenkins: Diving further into the Inflation Reduction Act: Part Two

Session 5: Climate policy and institutions	
Required Readings	Dubash et al. 2021. National climate institutions complement targets and policies. *Science*, *374*(6568), 690-693. Finnegan, Jared J. 2022. 'Institutions, Climate Change, and the Foundations of Long-Term Policymaking'. *Comparative Political Studies* 55(7): 1198–1235. Zwar, Claudia et al. 2023. *Mapping Variation in Institutions for Climate Policymaking - Climate Institutions in Germany, the United Kingdom, Sweden, and Australia*. Ariadne Report, *Executive Summary* and Section 3 [rest as you are interested].
Optional Readings	Averchenkova, Alina, Sam Fankhauser, and Jared J. Finnegan. 2021a. 'The Impact of Strategic Climate Legislation: Evidence from Expert Interviews on the UK Climate Change Act'. *Climate Policy* 21(2): 251–63. Meckling, J., & Karplus, V. J. 2023. Political strategies for climate and environmental solutions. *Nature Sustainability*, 1-10. Fernández-I-Marín, Xavier, Christoph Knill, and Yves Steinebach. 2021. 'Studying Policy Design Quality in Comparative Perspective'. *American Political Science Review* 115(3): 931–47. Fernández-I-Marín, Xavier, Christoph Knill, Christina Steinbacher, and Yves Steinebach. 2023. 'Bureaucratic Quality and the Gap between Implementation Burden and Administrative Capacities'. *American Political Science Review*: 1–21. Flachsland, Christian, and Sebastian Levi. 2021. 'Germany's Federal Climate Change Act'. *Environmental Politics* 30(sup1): 118–40. Guy, Johnathan, Esther Shears, and Jonas Meckling. 2023. 'National Models of Climate Governance among Major Emitters'. *Nature Climate Change* 13: 189–95. Lockwood, Matthew. 2021. 'Routes to Credible Climate Commitment: The UK and Denmark Compared'. *Climate Policy* 21(9): 1234–47.
Optional Podcasts	Claudia Zwar and Christian Flachsland: Mapping Institutions for Climate Policymaking in Germany, the United Kingdom, Sweden, and Australia. Ariadne Webinar

Session 6: Climate policy instruments I: Introduction	
Required Readings	Nachtigall, Daniel et al 2024. The Climate Actions and Policies Measurement Framework: A Database to Monitor and Assess Countries' Mitigation Action. Environmental & Resource Economics: 1-27.

	Hoppe, J., Hinder, B., Rafaty, R., Patt, A., & Grubb, M. 2023. Three Decades of Climate Mitigation Policy: What Has It Delivered?. *Annual Review of Environment and Resources*, *48*, 615-650.
Optional Readings	van den Bergh, Jeroen C.J.M. et al. 2021. 'Designing an Effective Climate-Policy Mix: Accounting for Instrument Synergy'. *Climate Policy* 21(6): 745–64. Meckling, Jonas, and Steffen Jenner. 2016. 'Varieties of Market-Based Policy: Instrument Choice in Climate Policy'. *Environmental Politics* 25(5): 853–74. Max Roser. 2021 - "The argument for a carbon price" Published online at OurWorldInData.org. Retrieved from: 'https://ourworldindata.org/carbon-price'

Session 7: Climate policy instruments II: The economic perspective	
Required Readings	Blanchard, Olivier, Christian Gollier, and Jean Tirole. 2023. 'The Portfolio of Economic Policies Needed to Fight Climate Change'. Annual Review of Economics 15(1): 689–722. Edenhofer, Ottmar, Max Franks, and Matthias Kalkuhl. 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* 28(5): 1090–1121.
Optional Readings	Hayek, F. A. 1945. The use of knowledge in society. *The American Economic Review* 35(4): 519-530. Baranzini, A., et al. 2017. Carbon pricing in climate policy: seven reasons, complementary instruments, and political economy considerations. *WIREs Climate Change* 8: e462. Bennear, L. S., & Stavins, R. N. 2007. Second-best theory and the use of multiple policy instruments. Environmental and Resource economics, 37, 111-129. Jaffe, A.B., R.G. Newell, R.N. Stavins. 2005. A tale of two market failures: Technology and environmental policy. *Ecological Economics* 54: 164–174. Acemoglu, Daron, Philippe Aghion, Lint Barrage, and David Hémous. 2023. 'Green Innovation and the Transition toward a Clean Economy'. *PIIE Working Paper* Nemet, G.F. 2013. Technological Change and Climate Change Policy. In: Shogren, J.F. (ed.): *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, Amsterdam: Elsevier, Vol. 1, 107-116. Nordhaus, W. 2011. Designing a friendly space for technological change to slow global warming. Energy economics, 33(4), 665-673. Holland, Stephen P., Erin T. Mansur, and Andrew J. Yates. 2021. 'The Electric Vehicle Transition and the Economics of Banning Gasoline Vehicles'. *American Economic Journal: Economic Policy* 13(3): 316–44. Shapiro, Joseph et al 2022. Are Vehicle Air Pollution Standards Effective, Efficient, and Equitable? Blog

	Metcalf, Gilbert E. 2021. 'Carbon Taxes in Theory and Practice'. *Annual Review of Resource Economics* 13(1): 245–65. ———. 2023. 'Five Myths about Carbon Pricing'. *Oxford Review of Economic Policy* 39(4): 680–93. Stavins, Robert N. 2022. 'The Relative Merits of Carbon Pricing Instruments: Taxes versus Trading'. *Review of Environmental Economics and Policy* 16(1): 62–82. Pizer, William A., and Steven Sexton. 2019. 'The Distributional Impacts of Energy Taxes'. *Review of Environmental Economics and Policy* 13(1): 104–23. Reguant, Mar. 2019. 'The Efficiency and Sectoral Distributional Impacts of Large-Scale Renewable Energy Policies'. *Journal of the Association of Environmental and Resource Economists* 6(S1): S129–68.
Optional Podcasts	Nobel Laureate William Nordhaus: The Economics of Climate Change. 2020. Introduction to Economics and Policy of Climate Change: How Will You Design a Climate Policy? 2017. James Stock on Macroeconomics, Carbon Pricing and Climate Policy. 2021. Stephen Holland: Going from Gasoline to Electric. David Hémous: Green Innovation Policies Nathan Lane: The New Empirics of Industrial Policy

Session 8: Climate policy instruments III: The political science perspective	
Required Readings	Meckling, J., & Karplus, V. J. (2023). Political strategies for climate and environmental solutions. *Nature Sustainability*, 1-10. Pahle, Michael et al. 2018. 'Sequencing to Ratchet up Climate Policy Stringency'. *Nature Climate Change* 8(10): 861–67. Jaakkola, Niko, Frederick Van Der Ploeg, and Anthony J. Venables. 2023. '"Big Push" Green Industrial Policy'.
Optional Readings	Edmondson, Duncan, Christian Flachsland, et al. 2022. Anticipatory climate policy mix pathways: A framework for ex-ante construction and assessment applied to the road transport sector. Manuscript Meckling, J., & Nahm, J. (2018). The power of process: State capacity and climate policy. *Governance*, 31(4), 741-757. Linsenmeier, Manuel, Adil Mohommad, and Gregor Schwerhoff. 2022. 'Policy Sequencing towards Carbon Pricing among the World's Largest Emitters'. *Nature Climate Change* 12(12): 1107–10. Meckling, Jonas, Thomas Sterner, and Gernot Wagner. 2017. 'Policy Sequencing toward Decarbonization'. *Nature Energy* 2(12): 918–22. Levi, Sebastian, Christian Flachsland, and Michael Jakob. 2020. 'Political Economy Determinants of Carbon Pricing'. *Global Environmental Politics* 20(2): 128–56. Levi, Sebastian. 2021. 'Why Hate Carbon Taxes? Machine Learning Evidence on the Roles of Personal Responsibility, Trust, Revenue Recycling, and Other Factors across 23 European Countries'. *Energy research and social science* 73: 101883.

	Beiser-McGrath, Liam F., and Thomas Bernauer. 2019. 'Could Revenue Recycling Make Effective Carbon Taxation Politically Feasible?' *Science Advances* 5(9): eaax3323. Mildenberger, Matto, Erick Lachapelle, Kathryn Harrison, and Isabelle Stadelmann-Steffen. 2022. 'Limited Impacts of Carbon Tax Rebate Programmes on Public Support for Carbon Pricing'. *Nature Climate Change* 12(2): 141–47. van der Ploeg, Frederick, Armon Rezai, and Miguel Angel Tovar. 2021. Gathering support for Green Tax Reform: Evidence from German Household Surveys'. *European Economic Review*: 103966. Douenne, Thomas, and Adrien Fabre. 2020. 'Yellow Vests, Pessimistic Beliefs, and Carbon Tax Aversion'. *American Economic Journal: Economic Policy* 14(1): 81–110. Fesenfeld, Lukas Paul. 2022. 'The Effects of Policy Design Complexity on Public Support for Climate Policy'. *Behavioural Public Policy*: 1–26.
Optional Podcasts	Rick van der Ploeg: A Radical Climate Policy Is Achievable and Affordable

Session 9: International climate politics (guest lecturer: Dr. Marian Feist)	
Required Readings	Hoffmann, M. 2013. Global Climate Change. In R. Falkner (Ed.). *The Handbook of Global Climate and Environment Policy*, 3–18. Putnam, R. D. 1988. Diplomacy and Domestic Politics: The Logic of Two-Level Games. *International Organization*, *42*(3), 427–460. Falkner, R. 2016. The Paris Agreement and the new logic of international climate politics. *International Affairs*, *92*(5), 1107–1125.
Optional Readings	Ostrom, E. 2012. Nested externalities and polycentric institutions: must we wait for global solutions to climate change before taking actions at other scales? *Economic Theory*, *49*(2), 353–369. Barrett, S. 1990. The Problem of Global Environmental Protection. *Oxford Review of Economic Policy*, *6*(1), 68–79. Nordhaus, W. 2015. Climate Clubs: Overcoming Free-riding in International Climate Policy. *American Economic Review*, 105(4), 1339–1370. Buchholz, Wolfgang, and Todd Sandler. 2021. 'Global Public Goods: A Survey'. *Journal of Economic Literature* 59(2): 488–545. Aklin, M., & Mildenberger, M. 2020. Prisoners of the Wrong Dilemma: Why Distributive Conflict, Not Collective Action, Characterizes the Politics of Climate Change. *Global Environmental Politics*, *20*(4), 4–27. Kennard, A., & Schnakenberg, K. E. 2023. Comment: Global Climate Policy and Collective Action. *Global Environmental Politics*, *23*(1), 133–144. Hirshleifer, J. 1983. From weakest-link to best-shot: The voluntary provision of public goods. *Public Choice*, *41*(3), 371–386. Allan, J., Roger, C., Hale, T., Bernstein, S., Tiberghien, Y., & Balme, R. (2023). Making the Paris Agreement: Historical Processes and the Drivers of Institutional Design. *Political Studies*, *71*(3), 914–934.

	Barrett, S. 2016. Coordination vs. Voluntarism and enforcement in sustaining international environmental cooperation. *Proceedings of the National Academy of Sciences*, *113*(51), 14515–14522. Bellelli, Francesco S., Ashar Aftab, and Riccardo Scarpa. 2023. 'The Participation Dilemma: A Survey of the Empirical Literature on International Environmental Agreement Ratification'. *Review of Environmental Economics and Policy* 17(1): 3–21. Bechtel, M. M., & Urpelainen, J. 2015. All Policies Are Glocal: International Environmental Policy Making with Strategic Subnational Governments. *British Journal of Political Science*, *45*(3), 559–582. Clausing, K. A., & Wolfram, C. 2023. Carbon Border Adjustments, Climate Clubs, and Subsidy Races When Climate Policies Vary. *Journal of Economic Perspectives*, *37*(3), 137–162. Bäckstrand, K., & Lövbrand, E. 2019. The Road to Paris: Contending Climate Governance Discourses in the Post-Copenhagen Era. *Journal of Environmental Policy & Planning*, 21(5), 519–532. Purdon, M. 2017. Neoclassical Realism and International Climate Change Politics. Moral Imperative and Political Constraint in International Climate Finance. *Journal of International Relations and Development,* 20(2), 263–300.
Optional Podcasts	Elinor Ostrom: The role of culture in solving social dilemmas Nitya Pandalai-Nayar: What makes a supply chain resilient William Nordhaus: Climate Compacts to Combat Free Riding in International Climate Agreements James Fearon: Cooperation, Conflict, and the Costs of Anarchy

Session 10: EU climate policy	
Required Readings	Delbeke, Jos & Peter Vis. 2021. Climate Policy Architecture in the EU. EAERE Magazine 13. Towards a Deep Climate Collaboration: 8-13. Delbeke, Jos & Peter Vis. 2021. EU Domestic Climate Policy – Looking Back. EAERE Magazine 13. Towards a Deep Climate Collaboration: 14-21. Delbeke, Jos & Peter Vis. 2021. EU Domestic Climate Policy – Looking Forward. EAERE Magazine 13. Towards a Deep Climate Collaboration: 22-27. European Scientific Advisory Body on Climate Change (2024): Towards EU climate neutrality. Progress, policy gaps and opportunities. Summary, pp. 14-29. Rest as you are interested. Download
Optional Readings	Rayner, T., Szulecki, K., Jordan, A. J., & Oberthür, S. (2023). Handbook on European Union climate change policy and politics. Download Dorsch, Marcel J., Christian Flachsland, and Ulrike Kornek. 2020. 'Building and Enhancing Climate Policy Ambition with Transfers: Allowance Allocation and Revenue Spending in the EU ETS'. *Environmental Politics* 29(5): 781–803. Feindt, Simon et al. 2021. 'Understanding Regressivity: Challenges and Opportunities of European Carbon Pricing'. *Energy Economics* 103: 105550.

	Bayer, Patrick. 2023. 'Foreignness as an Asset: European Carbon Regulation and the Relocation Threat among Multinational Firms'. *The Journal of Politics*: 1167-1580. Genovese, Federica, and Endre Tvinnereim. 2019. 'Who Opposes Climate Regulation? Business Preferences for the European Emission Trading Scheme'. *The Review of International Organizations* 14(3): 511–42. Strunz, Sebastian, Erik Gawel, Paul Lehmann, and Patrik Söderholm. 2018. 'Policy Convergence as a Multifaceted Concept: The Case of Renewable Energy Policies in the European Union'. *Journal of Public Policy* 38(3): 361–87. Grosjean, Godefroy et al. 2016. 'After Monetary Policy, Climate Policy: Is Delegation the Key to EU ETS Reform?' *Climate Policy* 16(1): 1–25 Jakob, M. 2023. The Political Economy of Carbon Border Adjustment in the EU. *Oxford Review of Economic Policy*, *39*(1), 134–146. Kulovesi, Kati, Sebastian Oberthür, Harro van Asselt, and Annalisa Savaresi. 2024. 'The European Climate Law: Strengthening EU Procedural Climate Governance?' *Journal of Environmental Law*: eqad034.
Optional Podcasts	Susanne Dröge: Tackling climate change with a carbon border adjustment mechanism European Scientific Advisory Board on Climate Change. Webinar. Towards EU Climate Neutrality: Progress, Policy Gaps and Opportunities. 2024.

Session 11: Case study presentations	
Required Readings	-
Optional Readings	-

Session 12: Case study presentations	
Required Readings	-
Optional Readings	-