

DAVID G. VICTOR

Co-Director, UC San Diego Deep Decarbonization Initiative

**Professor of Innovation and Public Policy
The School of Global Policy and Strategy, UC San Diego**

**Professor of Climate, Atmospheric Science and Physical Oceanography
The Scripps Institution of Oceanography (adjunct faculty)**

**Professor, Department of Mechanical & Aerospace Engineering
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EDUCATION

1997 Ph.D. (Political Science), MIT
1987 A.B. (History and Science), Harvard University

EXPERIENCE

2009 - present **Professor of Innovation and Public Policy, the School of Global Policy and Strategy (GPS), UC San Diego.**
At GPS I develop and teach courses on the politics of the policy making process as well as advanced courses on the politics of energy and environmental policy and fundamentals of energy systems (joint with Mechanical and Aerospace Engineering). I designed the school's Master in Public Policy (MPP), which is rapidly growing to become the largest degree program, and co-lead the school's specialization on environmental policy. I also co-designed and created courses that link GPS (where most teaching is in the social sciences) with the Scripps Institution of Oceanography with the Jacobs School of Engineering. Also co-lead the capstone program on energy and environmental policy, which links advanced students with real world clients for strategic analysis and consulting experience—the culmination of their two-year careers at GPS. Since 2018 holder of the Center for Global Transformation endowed chair in innovation and public policy.

- 2017 - present **Co-director, UCSD Initiative on Deep Decarbonization**
 Joint effort by UCSD’s policy school (GPS) and the School of Engineering to catalyze more research and teaching related to radical reductions in emissions of warming gases “in the real world”—that is, where political and economic constraints matter. Lead a seminar series; fund creation of new courses; and spearhead major integrated research initiatives—on the future of natural gas, on the prospects for advanced nuclear plants, on the politics of carbon capture & storage, decentralization of the grid, and the prospects for integrating massive renewables into the grid.
- 2022-present **Director, The Scripps Institution of Oceanography, Carbon Removal Initiative (CRI)**
 The Carbon Removal Initiative (CRI) is a new research enterprise at the Scripps Institution of Oceanography (SIO), based in Climate, Atmospheric Science and Physical Oceanography. It will analyze the potentials for slowing and stopping climate change through, in part, massive deployment of atmospheric carbon removal technologies. The CRI will fund and perform research on particular carbon removal options but focus on systems analysis on the modes and speed at which carbon removal systems might scale and their overall impact on carbon dioxide concentrations in the atmosphere.
- 2017-present **Professor, Mechanical and Aerospace Engineering.**
 At the Jacobs School of Engineering, I advise PhD students studying electric power grids—stability, integration of renewable power generators on grids, behavior and operation of microgrids. Also member of the Center for Energy Research, on “Organized Research Unit” of UC San Diego managed by Mechanical and Aerospace Engineering.
- 2017-present **Professor of Climate, Atmospheric Science, and Physical Oceanography (adjunct)**
 At the Scripps Institution of Oceanography, I lead efforts to understand the policy and geophysical responses to rapid climate change, including potential roles for emergency deployment of carbon removal technologies.
- 2016-present **Nonresident Senior Fellow, The Brookings Institution**
 Co-created a Brookings-wide initiative that integrates insights from across all the major arms of Brookings, anchored in Foreign Policy. Create new content on how shifting geopolitics and technology affect the ability of countries to manage emissions of warming gases and lead public and private events on the same. Founded and led the Brookings initiative on the financial markets and climate change.

- 2009-2021 **Director, Laboratory on International Law and Regulation (ILAR) at the School of Global Policy and Strategy, UC San Diego**
 ILAR examined the ways that international regulatory institutions affect behavior—looking across a wide array of issue areas from energy and environment to human rights, trade, and security. Most of ILAR’s research concentrated in two areas—on the strategies that firms use to influence international legal agreements and on experimental research on the design and implementation of international agreements.
- 2006 - 2009 **Professor of Law, Stanford Law School.**
 Taught courses in regulated industries, energy and environmental law as well as field seminars and supervised JD research projects.
- 2001 - 2009 **Director, Program on Energy and Sustainable Development (PESD), Stanford University.**
 Responsible for raising more than \$15m and managing the Program’s \$2.3m per year annual budget. Senior Fellow, Freeman Spogli International Studies. Led PESD research on a wide range of issues in energy markets, with a special focus on the emerging markets of Brazil, China, India, Mexico and South Africa. Studies examined global climate change policy after the Kyoto Protocol; the emerging global markets for coal and natural gas; energy services for the world’s poor; and the performance of state-controlled oil companies.
- 1998 - 2009 **Robert W. Johnson, Jr., Fellow for Science and Technology, Council on Foreign Relations, New York (Adjunct Senior Fellow 2001-2009).**
 Head of CFR’s Science and Technology program; co-leader (with Benn Steil) of the CFR study on technological innovation and economic growth; Director of CFR’s task force on energy security (co-chaired by James Schlesinger and John Deutch) and senior adviser to the task force on climate change (co-chaired by George Pataki and Tom Vilsack). Led numerous study groups, such as on improving management of the \$50b U.S. strategic petroleum reserve and on international regulation of geoengineering.
- 1997 - 1998 **Research Scholar, Project on "Environmentally Compatible Energy Strategies, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria**

- 1993 - 1997 **Co-Leader, Project on "Implementation and Effectiveness of International Environmental Commitments (IEC)", IIASA, Laxenburg, Austria**
- 1990 – present **Consultant and Policy Adviser**
Various organizations, including: BP, plc, City of San Diego, Brookings Institution, Chevron, Council on Foreign Relations, Duke Energy, Electric Power Research Institute, Entergy, Nextera (and Florida Power & Light), Honda Motor Co Ltd, METI, International Institute for Sustainable Development, New Zealand Ministry for the Environment, Organization for Economic Cooperation and Development, Norwegian Ministry of Foreign Affairs, San Diego Gas & Electric, United Nations Conference on Trade and Development, United Nations Department of Economic and Social Affairs, United Nations Framework Convention on Climate Change, US Information Agency, U.S. Environmental Protection Agency, and the L20 project of the University of Victoria, World Bank.

TEACHING EXPERIENCE

UC San Diego

- Current “Fundamentals of the Energy System.” Intensive tour of all the major energy sources and carriers, along with major policies and projections. Intended for master and PhD students who will take additional coursework in the area or pursue careers related to energy. Offered jointly with the Jacobs School of engineering.
- “MPP Capstone” A project-based course emphasizing real world application of theories and methods of policy analysis to strategic challenges faced by real-world clients. Students work in small teams an external client to understand the challenge posed by the client while developing analytical tools for understanding the economic, technological, and policy aspects of the question—and then apply those tools, leading to final presentations and reports suitable for senior management and governing boards. Recent projects addressed the impact of emerging technologies on a utility’s revenue model, quantified opportunities for an EV company to capture credits under a new state program and how a state regulatory agency can encourage greater investment in microgrids.
- “Policy Making Processes.” First year professional master-level course that introduces students to major theories of how policy is made in different systems of government, incentives for policy reform, impact of policy on state- and privately-held firms, administrative law, organizational behavior, the behavior of

groups, principal-agent theory, etc.

“Politics of Energy and Environmental Policy.” An intensive professional-level seminar course on the theories that explain policy behavior related to energy and the environment. In-depth treatment of state-owned enterprises and national oil companies; role of the state in regulating private behavior; international governance; organizational and bureaucratic behavior. Theories coupled with several dozen case studies drawn from around the world.

- 2015 “Interdisciplinary Approaches to Studying Energy.” Seminar series jointly taught with Jacobs School of Engineering, Department of Biology, and other units on campus. Offered once and turned into a Google MOOC.
- 2012 “The Science and Politics of Climate Change.” Course jointly taught with three professors from the Scripps Institution of Oceanography on the fundamental scientific elements of climate change, economic analysis of climate policies, and political analysis. (Filmed for a Coursera MOOC, offered multiple times starting January 2014; re-filmed for a UC-wide 10 campus course that began fall 2017).
- 2011 “International Organization.” An intensive field seminar for PhD students, Department of Political Science, UC San Diego
- 2010 – 2013 “International Law and Regulation.” Professional level master’s student course with introduction to major theories of international cooperation, the role of public international law, global governance.

Stanford University

- 2003 – 2007 “Energy Law.” (Stanford Law School Law 455.) In-depth analysis of major issues in regulation of the energy system. Topics include all major aspects of U.S. oil & gas law, electricity law, and comparison with other countries. Includes assessment of experience with private investment in competitive markets as well as the performance of state-owned corporations. JD students.
- 2008 – 2009 “Political Economy of Energy Policy.” (Stanford Law School Law 227; cross-listed as Earth Systems 205.) An in-depth look at the major theories of political economy—such as public choice, principal-agent, organizations, and international political economy—with applications to major issues in energy policy. Core class for the “natural resources” track of Stanford’s advanced degree in public policy. JD and graduate students.
- 2005 – 2008 “Regulated Industries.” (Stanford Law School Law 220.) A survey on how the state intervenes to address major failures—mainly situations of natural monopoly and externality. Includes an introduction to the major theories of market failure,

attention to how regulators address problems of asymmetrical information and federalism, and application to central cases in electricity, natural gas, telecommunications, environment (principally air pollution) and food/drug law. JD students.

- 2007 “The Political Economy of Energy in India” (Earth Systems 288/188.) Intensive lecture course at Stanford followed by two weeks of field visits in India. Undergraduate and graduate students.
- 2005 “Energy and Development in the Brazilian Amazon” (Public Policy 30P). Three-week field seminar in Brazil, mainly the Amazon region. Undergraduate and graduate students.
- 2003 “International Environmental Politics.” (Political Science 118S). Survey of major theories and cases related to international management of environmental problems. Undergraduate students.

PUBLICATIONS

(* indicates peer refereed publications)

Peer-Reviewed Books, Chapters in Books

(* David G. Victor and Charles F. Sabel, 2022, *Fixing the Climate: Strategies for an uncertain world*, (Princeton University Press: New Jersey).

(* National Research Council, member, consensus study report team, 2021, *The Future of Electric Power in the U.S.*, (Washington, DC, National Academies Press).

(* David G. Victor and Danny Cullenward. 2020, *Making Climate Policy Work*, (Polity Press: Cambridge UK).

(* David G. Victor, Frank W Geels, and Simon Sharpe, 2019, *Accelerating the Low Carbon Transition*, The Brookings Institution and The Energy Transitions Commission.

(* David G. Victor, 2019, “Governing the Deployment of Geoengineering: Institutions, preparedness, and the Problem of Rogue Actors,” in *Governance of the Deployment of solar Geoengineering*, ed Robert N Stavins and Robert C. Stowe, Harvard Project on Climate Agreements (February).

(* David G. Victor, 2019, Chapter 5 “The Paris Agreement and its Implementation,” in *Bending the Curve: Climate Change Solutions*,” ed, Veerabhadran Ramanathan, Juliann E. Allison, Maximilian Auffhammer, David Auston, Anthony D. Barnosky, Lifang Chiang, William D. Collins, Steven J. Davis, Fonna Forman, Susanna B. Hecht, Daniel Kammen, C.-Y. Cynthia

Lin Lawell, Teenie Matlock, Daniel Press, Douglas Rotman, Scott Samuelsen, Gina Solomon, David G. Victor, Byron Washom, eds., University of California Office of the President.

(*) David G. Victor. 2018, Chapter 2 “Foreign Aid for Capacity Building to Address Climate Change.” In *Aid Effectiveness for Environmental Sustainability*, Yongfu Huang and Unai Pascual, eds, pp. 17–49. Singapore: Springer Singapore.

(*) Lars Gulbrandsen, Arild Underdal, David G. Victor, and Jorgen Wettestad, 2018, “Theory and Method” and “Comparative Analysis and Conclusions,” *The Evolution of Carbon Markets*, Jorgen Wettestad and Lars H. Gulbrandsen, eds, Routledge.

(*) David G. Victor, 2017, “Energy and Climate: Moving Beyond Symbolism,” Michael O’Hanlon, ed., *Brookings Big Ideas for America*. Washington: Brookings Institution Press.

(*) David G. Victor, 2016, “The Paris Agreement and Beyond: International Climate Policy Post 2020,” Harvard Project on Climate Policy Post-2020 in Making the Promise of Paris a Reality, Robert Stavins and Robert Stowe, eds., Harvard University, MA, USA.

(*) Gabriel Inchauste and David G. Victor, eds, 2017, *The Political Economy of Energy Subsidy Reform*, The World Bank.

(*) National Research Council, member, consensus study report team, 2017, *Enhancing the Resilience of the Nation’s Electricity System*, (Washington, DC, National Academies Press).

(*) David G Victor, D. Zhou, E. H. M. Ahmed, P. K. Dadhich, J. G. J. Olivier, H-H. Rogner, K. Sheikho, and M. Yamaguchi, 2014, “Introductory Chapter”. In: Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and J.C. Minx, eds. *Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, (Cambridge University Press: Cambridge UK,) chapter 1, pp. 77-116.

(*) David G. Victor, 2013, “The Gas Promise,” in: Jan H. Kalicki and David L. Goldwyn, eds., *Energy and Security: Strategies for a World in Transition*, chapter 3, pp.88-106 (Johns Hopkins Press: Baltimore).

(*) David G. Victor, David Hults, and Mark Thurber, eds, 2012, *Oil and Governance: State-Owned Enterprises and the World Energy Supply* (Cambridge University Press: Cambridge UK).

Author or co-author of chapters:

- (1) “Introduction” (with David Hults and Mark Thurber);
- (11) “Awakening Giant: Strategy and Performance of the Abu Dhabi National Oil Company,” (with Varun Rai);
- (20) “Conclusions and Implications” (with David Hults and Mark Thurber).

(*) David G. Victor, 2011, *Global Warming Gridlock: Creating More Effective Strategies for Protecting the Planet*, (Cambridge University Press: Cambridge UK).

(*) David G. Victor, 2009, *The Politics of Fossil Fuel Subsidies*, (International Institute for Sustainable Development: Geneva).

(*) David G. Victor, 2009, "Climate Accession Deals: New Strategies for Taming Growth of Greenhouse Gases in Developing Countries," in Joe Aldy and Rob Stavins, eds., *Post-Kyoto International Climate Policy: Implementing Architectures for Agreement*, chapter 21, pp. 618-648 (Cambridge University Press: Cambridge UK).

(*) David G. Victor, 2007, "Fragmented Carbon Markets and Reluctant Nations: Implications for the Design of Effective Architectures," in Joe Aldy and Rob Stavins, eds., *Architectures for Agreement: Addressing Global Climate Change in the Post-Kyoto World*, chapter 4 ((**affiliated**)) (Cambridge University Press: Cambridge UK).

(*) David G. Victor and Thomas C. Heller, eds., 2007, *Reforming Electric Power Markets in Developing Countries: Politics, Law and Institutions* (Cambridge University Press: Cambridge UK). Author or co-author of chapters:

- (1) Introduction and Overview
- (7) Conclusions

(*) David G. Victor, Amy M. Jaffe, and Mark H. Hayes, eds., 2006, *Natural Gas and Geopolitics* (Cambridge University Press: Cambridge UK). Author or co-author of chapters:

- (1) Introduction and Overview;
- (2) Introduction to the Historical Case Studies: Research Questions, Methods and Case Selection;
- (4) Bypassing Ukraine: Gas to Poland and Germany from Russia
- (10) Politics, Markets and the Shift to Gas: Insights from the Seven Historical Case Studies
- (14) Gas Geopolitics: Visions to 2030

(*) P.R. Shukla, Thomas C. Heller, David G. Victor, Debashish Biswas, Tirthankar Nag, and Ameer Yajnik, 2004, *Electricity Reforms in India: Firm Choices and Emerging Generation Markets* (Tata McGraw-Hill: New Delhi).

(*) Gordon S. Smith and David G. Victor, 2004, "Beyond Kyoto?" in Harold Coward and Andrew J. Weaver, eds., *Hard Choices: Climate Change in Canada*, (Wilfrid Laurier University Press: Waterloo).

(*) David G. Victor, 2004, "WTO's efforts to Manage Differences in national Sanitary and Phytosanitary Policies," in David Vogel and Robert Kagan, eds., *Dynamics of Regulatory Change: How Globalization Affects National Regulatory Policy*, (Univ. of California Press: Berkeley).

(*) David G. Victor, 2003, "International Agreements and the Struggle to Tame Carbon," in James M. Griffin, ed., *Global Climate Change: The Science, Economics and Politics* (Edward Elger: Cheltenham, UK) pp. 204-229.

(*) Benn Steil, David G. Victor, Richard Nelson, eds., 2002, *Technological Innovation and Economic Performance* (Princeton University Press: Princeton, New Jersey). Author or co-author of chapters:

- (1) "Introduction and overview," with Benn Steil and Richard Nelson
- (16) "Innovation and performance in the electric power industry".

(*) David G. Victor and Rebecca U. Weiner, 2002, "A Great Transformation in World Trade Law: Can the WTO Stay Afloat?," in Barry Krisoff, Mary Bohman and Julie A. Caswell, eds., *Global Food Trade and Consumer Demand for Quality*, pp. 33-41, proceedings of the International Agriculture and Trade Research Consortium, 26-27 June 2000, Montreal, Canada (Kluwer: New York).

(*) David G. Victor, 2001, *The Collapse of the Kyoto Protocol and the Struggle to Slow Global Warming*, (Princeton University Press: Princeton, New Jersey).

(*) David G. Victor, 2001, "Whale Sausage: Why the Whaling Regime Does Not Need Fixing," in: Robert L. Friedheim, ed., *Toward a Sustainable Whaling Regime* (Univ. of Washington Press: Seattle).

(*) David G. Victor, 2000, "Risk Management and the World Trading System: Regulating International Trade Distortions Caused by National Sanitary and Phytosanitary Policies," in: *Incorporating Science, Economics and Sociology in Developing Sanitary and Phytosanitary Standards in International Trade: Proceedings of a Conference* (Washington: National Academy Press), ch. 6. [Also online at: <http://www.nap.edu/catalog/9868.html>]

(*) David G. Victor, 1999, "The Regulation of Greenhouse Gases--Does Fairness Matter?" in: F. Tóth, ed., *Fair Weather? Equity Concerns in Climate Change* (Earthscan: London), chapter 12.

(*) David G. Victor, Kal Raustiala, Eugene B. Skolnikoff, eds., 1998, *The Implementation and Effectiveness of International Environmental Commitments: Theory and Practice* (MIT Press: Cambridge Mass). Author or co-author of chapters:

- (1) Victor, Raustiala, Skolnikoff, "Introduction and Overview,"
- (4) Victor, "The Operation and Effectiveness of the Montreal Protocol's Non-Compliance Procedure,"
- (6) Victor, "Regulation of Trade in Hazardous Chemicals and Pesticides," and
- (16) Raustiala and Victor, "Conclusions."

(* David G. Victor with Abram Chayes and Eugene B. Skolnikoff, 1993, "Pragmatic Approaches to Regime-Building for Complex International Problems," in: N. Choucri, ed., *Global Accord: Environmental Challenges and International Responses*, (MIT Press: Cambridge USA).

Peer-Reviewed Articles and Reports

(* Charles Kennel, James Falk, and David G. Victor. 2024. "Wilson's Bottleneck". *Sustainability Science*. <https://doi.org/10.1007/s11625-024-01577-4>.

(* Steffen Kallbekken, Marianne T. Lund, and David G. Victor. 2024. "Transforming Aviation's Impact on the Climate: Rethinking the Research Strategy." *Environmental Science & Technology* 58(47): 20849–58. doi:[10.1021/acs.est.4c08470](https://doi.org/10.1021/acs.est.4c08470).

(* Parker Bolstad and David G. Victor, 2024, "Growing Deviations Between Elite and Non-Elite Media Coverage of Climate Change in The United States." *Climatic Change*. ACCEPTED FOR PUBLICATION.

(* David G. Victor, Astrid Dannenberg, Marcel Lumkowsky, Emily Carlton, 2023, "Naming and shaming as a strategy for enforcing the Paris Agreement: The role of political institutions and public concern," *Proceedings of the National Academy of Sciences*, Vol 120, issue 40.

(* David G. Victor, Marcel Lumkowsk and Emily Carlton, 2023, "Determining the Willingness to Link Climate and Trade Policy," *Climatic Change*, Vol 176(10), issue 133.

(* David G. Victor and Emily Carlton, 2023, "Technology to Solve Global Problems: An Emerging Consensus for Green Industrial Policy," *Environmental Research Letters*.

(* David G. Victor, Marcel Lumkowsky, and Astrid Dannenberg. 2022. "Determining the Credibility of Commitments in International Climate Policy." *Nature Climate Change* 12(9): 793–800.

(* Ahmed Abdulla, Fabian JE Telschow, Julia Donher, Ralph F. Keeling, Armin Schwartzman and David G. Victor, 2023 "Atmospheric verification of emissions reductions on paths to deep decarbonization," *Environmental Research Letters*, 18, no. 4, 004403.

(* David G. Victor, Marcel Lumkowsky and Astrid Dannenberg, 2022, "Determining the credibility of Commitments in international Climate Policy," *Nature Climate Change*, vol 12, pp. 793-800.

(* Zakeri Behnam, Katsia Paulavets, Leonardo Barreto-Gomez, Luis Gomez Echeverri, Shonali Pachauri, Benigna Boza-Kiss, Caroline Zimm, Joeri Rogelj, Felix Creutzig, Diana Ürge-Vorsatz, David G. Victor, Morgan D. Bazilian, Steffen Fritz, Dolf Gielen, David L. McCollum, Leena

Srivastava, Julian D. Hunt, and Shaheen Pouya, 202,. "Pandemic, War, and Global Energy Transitions," *Energies*, vol 15, no. 17, pp. 6114.

(*) Wei Peng, Gokul Iyer, Matthew Binsted, Jennifer Marlon, Leon Clarke, James A Edmonds, and David G Victor, 2021, "To achieve deep cuts in US emissions, state-driven policy is only slightly more expensive than nationally uniform policy," *Nature Climate Change*, vol 11, pp. 911–912.

(*) Wei Peng, Gokul Iyer, Matthew Binsted, Jennifer Marlon, Leon Clarke, James A. Edmonds, and David G Victor, 2021, "The surprisingly inexpensive cost of state-driven emission control strategies," *Nature Climate Change*, vol 11, pp. 738–745

(*) Ryan Hanna and David G Victor, 2021, "Marking the decarbonization revolutions," *Nature Energy*, vol 6, pp. 568-571.

(*) Wei Peng, Gokul Iyer, Valentina Bosetti, Vaibhav Chaturvedi, James A. Edmonds, Allen A. Fawcett, Stephane Hallegatte, David G Victor, Detlef van Vuuren and John Weyant, 2021, "Climate policy models need to get real about people—here's how," *Nature*, vol 594, pp. 174-176. (Comment)

(*) Stephanie H. Jones, Gabriel Malek, Michael Panfil, and David G. Victor, 2021, "What Investors and the SEC can learn from the Texas power crises," The Brookings Institution and Environmental Defense Fund.

(*) Sadie Frank, Eric Gesick, and David G. Victor, 2021, "Inviting Danger: How Federal Disaster, Insurance and Infrastructure policies are magnifying the harm of climate change," The Brookings Institution.

(*) Ryan Hanna, Ahmed Abdulla, Yangyang Xu, and David G. Victor, 2021, "Emergency deployment of direct air capture as a response to the climate crisis," *Nature Communications*, vol 12.

(*) Ahmed Abdulla, Ryan Hanna, Kristen R. Schell, Oytun Babacan, and David G. Victor, 2021, "Explaining successful and failed investments in U.S. carbon capture and storage using empirical and expert assessments," *Environmental Research Letters*, vol 16.

(*) Parker Bolstad, Sadie Frank, Eric Gesick, and David G. Victor, 2020, "Flying Blind: What do investors really know about climate change risks in the U.S. equity and municipal debt markets?" Hutchins Center on Fiscal and Monetary Policy, The Brookings Institution.

(*) Sam Markoff, Ines M.L. Azevedo, Mark Muro, and David G. Victor, 2020, "Pledges and progress: Steps toward greenhouse gas emissions reductions in the 100 largest cities across the United States," Metro Studies Program, The Brookings Institution.

(*) Ryan Hanna, Vahid R. Disfani, Hamed Valizadeh Haghi, David G. Victor, and Jan Kleissl, 2019, “Improving Estimates for Reliability and Cost in Microgrid Investment Planning Models.” *Journal of Renewable and Sustainable Energy*, vol 11, no. 4, pp. 045302-1- 045302-115.

(*) Vanessa C. Pinsky, Isak Kruglianskas, and David G. Victor, 2019, “Experimentalist Governance in Climate Finance: The Case of REDD+ in Brazil.” *Climate Policy*, vol 19, pp. 725–38.

(*) Ahmed Abdulla, B. Sergi, and David G. Victor, 2019, “Limits to deployment of nuclear power for decarbonization: Insights from public opinion.” *Energy Policy*, vol 129, pp. 1339-1346.

(*) Lars H. Gulbrandsen, Jørgen Wettestad, David G. Victor, and Arild Underdal, 2019. “The Political Roots of Divergence in Carbon Market Design: Implications for Linking.” *Climate Policy*, vol 19, pp. 427–38.

(*) Oytun Babacan, Ahmed Abdulla, Ryan Hanna, Jan Kleissl, and David G. Victor. 2018 “Unintended Effects of Residential Energy Storage on Emissions from the Electric Power System.” *Environmental Science & Technology*, vol 52, pp. 13600–608.

(*) David G. Victor, 2018, “The new geometry of climate governance,” *Chinese Journal of Population Resources and Environment*, vol 16, 181-185.

(*) Stine Aakre, Steffen Kallbekken, Rita Van Dingenen, and David G Victor, 2018, “Incentives for small clubs of Arctic countries to limit black carbon and methane emissions,” *Nature Climate Change*, vol 8, pp. 85-90.

(*) Ahmed Abdulla, Michael Ford, Granger Morgan, and David G Victor, 2017. “A Retrospective Analysis of Funding and Focus in US Advanced Fission Innovation.” *Environmental Research Letters*, vol 12 (8), pp. 084016, 1-9.

(*) David G. Victor, 2017, “*Three-Dimensional Climate Clubs: Implications for Climate Cooperation and the G20*,” Geneva: ICTSD (August).

(*) Natalya D. Gallo, David G. Victor and Lisa A. Levin, 2017, “Ocean Commitments Under the Paris Agreement,” *Nature Climate Change*, vol 9, pp. 833-838.

(*) Emilie M. Hafner-Burton, Sergio Puig, and David G. Victor, 2017, “Against Secrecy: the Social Cost of International Dispute Settlement,” *Yale Journal of International Law*, vol 71(S1), pp. S1-S31.

(*) Emilie M. Hafner-Burton, Stephan Haggard, David Lake and David G. Victor, 2017, “The Behavioral Revolution and International Relations,” *International Organization*, vol, 71, Supplement pp. S1-S31.

- (* Emilie M. Hafner-Burton, Brad L. LeVeck and David G. Victor, 2017, “No False Promises: How the Prospect of Non-Compliance Affects Elite Preferences for International Cooperation,” *International Studies Quarterly*, vol 61, pp. 136-139.
- (* Christopher T.M. Clack et al (22 authors), 2017, “Evaluation of the proposal for reliable low-cost grid power with 100% penetration of intermittent wind, water, and solar,” *Proceedings of the National Academy of Sciences*, vol 114(26), pp. 6722-6727.
- (* Guri Bang, David G. Victor, and Steinar Andresen. 2017. “California’s Cap-and-Trade System: Diffusion and Lessons.” *Global Environmental Politics*, vol 17 (3), pp. 12–30.
- (* Michael J. Ford, Ahmed Abdulla, M. Granger Morgan, and David G. Victor. 2017. “Expert Assessments of the State of U.S. Advanced Fission Innovation.” *Energy Policy*, vol 108, pp. 194–200.
- (* Gang He and David G. Victor, 2017, “Experiences and lessons from China’s success in providing electricity for all,” *Resources, Conservation & Recycling*, vol 122, pp. 335-338.
- (* Ryan Hanna, Mohammed Ghonima, Jan Kleissl, George Tynan, and David G. Victor, 2017, “Evaluating business models for microgrids: Interactions of technology and policy,” *Energy Policy*, vol 103, pp. 47-61.
- (* Charles F. Kennel, Stephen Briggs and David G. Victor, 2016, “Making Climate Science More Relevant” *Science*, vol 354 (6311), pp. 421-422.
- (* Robert O. Keohane and David G. Victor, “Cooperation and Discord in Global Climate Policy” *Nature Climate Change*,” 2016, vol 6(6), pp. 570-575.
- (* Emilie M. Hafner-Burton and David G. Victor, 2016, “Secrecy in International Investment Arbitration: An Empirical Analysis,” *Journal of International Dispute Settlement*, vol 7(1), pp. 161-182.
- (* Emilie M. Hafner-Burton, Brad L. LeVeck and David G. Victor, 2016, “How Activists Perceive the Utility of International Law,” *Journal of Politics*, vol 78(1), pp. 167–180
- (* Charles F. Sabel and David G. Victor, 2015, “Governing Global Problems Under Uncertainty: Making Bottom-Up Climate Policy Work,” *Climatic Change*, vol 144, pp. 15-27.
- (* Gokul C. Iyer, Leon E. Clarke, James A. Edmonds, Brian P. Flannery, Nathan E. Hultman, Haewon C. McKeon, and David G. Victor, 2015. “Improved Representation of Investment Decisions in Assessments of CO₂ Mitigation,” *Nature Climate Change*, vol 5, pp.436-440
- (* David G. Victor, 2015, *Join the Club: Group Approaches to Tackling Climate Change*, Geneva: International Centre for Trade and Sustainable Development.

- (*) Brad L. LeVeck, D. Alex Hughes, James H. Fowler, Emilie Hafner-Burton and David G. Victor, 2014. "The Role of self-interest in elite bargaining," *Proceedings of the National Academy of Sciences*, vol 111, pp. 18536-18541.
- (*) David G. Victor, Reyer Gerlagh and Giovanni Baiocchi 2014, "Getting Serious About Categorizing Countries." *Science*, vol 345, pp. 34-36.
- (*) Emilie M. Hafner-Burton, Brad L. LeVeck, David G. Victor and James H. Fowler, 2014, "Decision Maker Preferences for International Legal Cooperation," *International Organization*, vol 68, pp. 845-876.
- (*) David G Victor, 2013, "National Oil Companies and the Future of the Oil Industry," *Annual Review of Resource Economics*, vol 5, pp. 445-462.
- (*) Emilie M. Hafner-Burton, D. Alex Hughes, and David G Victor, 2013, "The Cognitive Revolution and the Political Psychology of Elite Decision Making," *Perspectives on Politics*, vol 11, pp. 368-386.
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OTHER INFORMATION

Editorial Boards: *Nature Climate Change* editorial advisory board; *Climatic Change* (Deputy Editor responsible for most submissions in the social sciences, 2015-2017); *Energy Policy*; *Energy Research and Social Science*; Oxford University Press, *Encyclopedia of Global Change*; *Chinese Academy of Social Sciences*; *Sustainable Development Research*.

Governing and Advisory Boards: Center for Climate and Energy Solutions (Effective October 2024- present); Energy and Environmental Systems (2023- Current); National Renewable Energy Laboratory (2023 - Current) Climate-Tech Policy Boot Camp, ITIF Center for Clean Energy Innovation (2022-present); Australian Centre for Climate and Environmental Law Advisory Board (2022-present); Clean Growth Leadership Network (2021-present); Project Canary 2021-present); ENX 2021-present) Observer Research Foundation America, ORF (2020-present); International Energy Agency, IEA special report: Financing Clean Energy Transitions in Emerging Market and Developing Economies (2020-present); University of California Offsets Committee (2020-present); American Academy of Arts and Sciences, Accelerating Climate Action Commission, Commission Co-chair (2019-present); Board on Energy and Environmental Sciences, US National Academies of Sciences, Engineering and Medicine (2019-present); Advisory Council of the Electric Power Research Institute (Chairman 2011-2013; vice-chairman 2008-2011 and Member 2010-Present); Board of Directors of the Electric Power Research Institute (member, 2013-2019; member of the compensation and leadership development committee); Work Economic Forum, (2014-present) e.g. Global Agenda Councils, various related to energy and sustainability, (chairman and member, 2014-present, World Economic Forum Global Agenda Council on Energy Security (member since 2008-2014; chairman 2010-2011), World Economic Forum Global Agenda on Governance and Sustainability (chairman 2014- present); IPCC Special Meeting on Geoengineering (member of the planning committee, 2011); NSF-funded Climate and Energy Decision-Making (CEDM) advisory board, Carnegie Mellon University (member); MIT Study on the Future of Natural Gas (member of the advisory board 2009-2011); Task for Energy Security at the Hoover Institution, Stanford University, originally chaired by the late George Shultz (member since 2008); Advisory Board for EarthEra (2009-2015); Alternative energy Future Project of the American Academy of Arts and Sciences (member 2010-2014).

Writing teams: National Academies of Science, Engineering and Medicine, consensus study report on The Future of Electric Power in the United States, member (2018-2022); IPCC Fifth Assessment Report (Convening Lead Author for Chapter 1 of Working Group 3, writing team for the Summary for Policymakers; 2011-2015); National Petroleum Council Study on the North American Resource Development in Natural Gas (member of the emissions writing team; co-chair of the subgroup on policy related to greenhouse gas emissions; 2010-2011); Bipartisan Policy Commission study on geoengineering policy (member 2009-2012); National Academies of Science, Engineering and Medicine, consensus study report on Enhancing the Resilience of the Nation's Electricity System, member (2017) National Research Council Study on the use of Science in the State Department chaired by Thomas Pickering and Adel Mahmoud (member 2013-2015; chairman of the long-term strategy committee);

Reviewer: *American Journal of Political Science*, *American Political Science Review*, *American Political Science Review*, *American Historical Review* , *Cambridge University Press*; *Climatic Change*, *Comparative Political Studies*, *Climatic Change* (Associate Editor 100+ Manuscripts), *Climate Change Letters*, *Critical Review*, *Department of Energy (U.S.)*, *Environmental Economics and Policy*, *Environmental Economics*, *Environmental Research Letters*, *European Union Politics*, *European Research Council*, *Geoforum!*, *Global Environmental Change*

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Member of Professional and Honorific Societies: American Academy of Arts and Sciences (elected 2020); Council on Foreign Relations (life member, elected 2015); American Association for the Advancement of Science; American Political Science Association; American Geophysical Union; American Society of International Law; International Studies Association; International Institute for Strategic Studies.

Airline Transport Pilot (US certification—single and multiengine land, commercial, instrument)