

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 (affiliated)
The Jacobs School of Engineering, UC San Diego**

UC San Diego, 9500 Gilman Drive #0519, La Jolla, CA 92093-0519
Tel: 1.858.534.3254 | Fax: 1.858.534.3939 | Email: david.victor@ucsd.edu
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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. 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.

- 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.
- 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 **Co-Chair, The Brookings Institution, Initiative on Energy and Climate.**
 Co-created a Brookings-wide initiative that integrates insights from across all the major arms of Brookings, anchored in Foreign Policy, as well the three overseas Brookings Centers (India, China, Qatar). Help 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.
- 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, 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

UCSD

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 between the policy school and the engineering school at UC San Diego.

“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; refilmed 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, Forthcoming Princeton University Press, 2021 “Experimental Governance”

(* National Research Council, member, consensus study report team, The Future of Electric Power in the U.S. (2021, expected March)

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

(* 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 engineering,” Harvard Project on Climate Agreements.

(*) David G. Victor, 2019, Chapter 5 “The Paris Agreement and its Implementation,” in “*Bending the Curve: Climate Change Solutions*,” t. 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, 17–49. Singapore: Springer Singapore, 2018.

(*) 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.

(*) Granger Morgan et al (panel on the resilience of the Nation’s Electric Power System), 2017, *Enhancing the Resilience of the Nation’s Electricity System*. Washington: National Academy 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: Cambridge University Press, 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 (Baltimore: Johns Hopkins Press).

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

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: Cambridge University Press).

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

(*) 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: Cambridge University Press).

(*) 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 (Cambridge: Cambridge University Press).

(*) David G. Victor and Thomas C. Heller, eds., 2007, *Reforming Electric Power Markets in Developing Countries: Politics, Law and Institutions* (Cambridge: Cambridge University Press).

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: Cambridge University Press). 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 Ameet Yajnik, 2004, *Electricity Reforms in India: Firm Choices and Emerging Generation*

Markets (New Delhi: Tata McGraw-Hill).

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

(*) 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* (Berkeley: Univ. of California Press).

(*) 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* (Cheltenham, UK: Edward Elgar), pp. 204-229.

(*) Benn Steil, David G. Victor, Richard Nelson, eds., 2002, *Technological Innovation and Economic Performance* (Princeton, Princeton University Press). 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 (New York: Kluwer).

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

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

(*) 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* (London: Earthscan), chapter

12.

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

Peer-Reviewed Articles and Reports

(*) Ryan Hanna, Ahmed Abdulla, Yangyang Xu and David G. Victor, 2020, "Emergency Responses to the climate crisis: deployment of direct air capture," *Nature Communications* (accepted).

(*) Ahmed Abdulla, Ryan Hanna, Kristen R. Schell, Oytun Babacan and David G. Victor, 2020, "Explaining successful and failed investments in U.S. carbon capture and storage using empirical and expert assessments," *Environmental Research Letters* (accepted)

(*) 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: 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, 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, 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, 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, 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, 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* 12, no. 8: 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, 833-838.

(*) Emilie M. Hafner-Burton, Sergio Puig, and David G. Victor, 2017, “Against Secrecy: the Social Cost of International Dispute Settlement,” 42 *Yale Journal of International Law*, volume 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*, Volume 71, Supplement 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*, 114(26), 6722-6727.

- (*) Guri Bang , David G. Victor, and Steinar Andresen. 2017. “California’s Cap-and-Trade System: Diffusion and Lessons.” *Global Environmental Politics* 17 (3): 12–30. doi:10.1162/GLEP_a_00413.
- (*) 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* 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*. Advance online. Doi 10.1016/j.enpol.2017.01.010
- (*) Charles F. Kennel, Stephen Briggs and David G. Victor, 2016, “Making Climate Science More Relevant” *Science*, 354 (6311), 421-422 (28 October).
- (*) Robert O. Keohane and David G. Victor, “Cooperation and Discord in Global Climate Policy *Nature Climate Change*,” 2016, 6(6), 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): 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*, 78(1): 167–180
- (*) Charles F. Sabel and David G. Victor, 2015, “Governing Global Problems Under Uncertainty: Making Bottom-Up Climate Policy Work,” *Climatic Change*, DOI 10.1007/s10584-015-1507-y
- (*) 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.
- (*) Robert O. Keohane and David G. Victor, 2012, “The Transnational Politics of Energy,” *Daedalus*, vol 142, pp. 97-109.
- (*) Charles F. Kennel, V. Ramanathan, and David G. Victor, 2012, “Coping with Climate Change in the Next Half-Century,” *Proceedings of the American Philosophical Society*,” vol 156, pp. 398-415.
- (*) Emilie M Hafner-Burton, David G. Victor and Yonatan Lupu, 2012. “Political Science Research on International Law: The State of the Field,” *American Journal of International Law* vol 106, pp. 47-97.
- (*) Robert O. Keohane and David G. Victor, 2011, “The Regime Complex for Climate Change,” *Perspectives on Politics* vol. 9 (1), pp. 7-23.
- (*) Fang Rong and David G. Victor, 2011. “Coal Liquefaction Policy in China: Explaining the Policy Reversal since 2006,” *Energy Policy*, vol 39, pp. 8175-8184.
- (*) Valentina Bosetti and David G. Victor, 2011. “Politics and Economics of Second-Best Regulation of Greenhouse Gases: The Importance of Regulatory Credibility” *The Energy Journal* vol. 32 (1) pp. 1-24.
- (*) Varun Rai, David G. Victor, Mark C. Thurber, 2010. “Carbon Capture and Storage at Scale: Lessons from the growth of analogous energy technologies,” *Energy Policy* vol. 38, pp. 4089-4098.
- (*) P.R. Shukla, Subash Dhar, David G. Victor, Michael Jackson, 2009. “Assessment of Demand for Natural Gas from the Electricity Sector in India,” *Energy Policy* vol. 37, pp. 3520-3534.

(*) David G. Victor, 2008, "On the Regulation of Geoengineering," *Oxford Review of Economic Policy*, vol 24, pp. 322-336.

(*) BinBin Jiang, Chen Wenying, Yu Yuefeng, Zeng Lemin, and David G. Victor (2008), "The future of natural gas consumption in Beijing, Guangdong and Shanghai: An assessment utilizing MARKAL" *Energy Policy*, vol. 36, pp. 3286-3299.

(*) Chi Zhang, P.R. Shukla, David G. Victor, Thomas C. Heller, Debashish Biswas, and Tirthankar Nag, 2006. "Baselines for carbon emissions in the Indian and Chinese power sectors: Implications for international carbon trading," *Energy Policy*, Vol 34, pp. 1900-1917.

(*) David G. Victor, 2006, "Toward Effective International Cooperation on Climate Change: Numbers, Interests and Institutions," *Global Environmental Politics*, vol. 6, pp. 90-103.

(*) David G. Victor, 2006, "Seeking Sustainability: Cities, Countryside, Wilderness," in Paul Demeny and Geoffrey McNicoll, eds., *The Political Economy of Global Population Change, 1950-2050* supplement to *Population and Development Review*, vol. 32, pp.202-221.

(*) Mark Howells, David G. Victor, Trevor Gaunt, Rebecca Elias, and Thomas Alfstad, 2006, "Beyond Free Electricity: The Costs of Electric Cooking in Poor Households and a Market-Friendly Alternative," *Energy Policy*, vol. 34, 3351-3358.

(*) David G. Victor and Joshua C. House, 2006, "BP's Emissions Trading System," *Energy Policy*, vol 34, pp. 2100-2112.

(*) Howells, Mark, Thomas Alfstad, David G. Victor, Gary Goldstein, and Uwe Renne, 2005, "A model of household energy services in a low-income rural African village," *Energy Policy*, Vol 33, pp 1833-1851, also posted at <http://pesd.stanford.edu>, Working Paper #18.

(*) David G. Victor, Joshua C. House and Sarah Joy, 2005, "A Madisonian Approach to Climate Policy," *Science*, vol. 309, No. 5742, pp. 1820-1821.

(*) David G. Victor and Lesley A. Coben, 2005, "A Herd Mentality in the Design of International Environmental Agreements?" *Global Environmental Politics* 5: 24-57.

(*) Kal Raustiala and David G. Victor, 2004, "The Regime Complex for Plant Genetic Resources," *International Organization*, vol 58 (2), pp. 277-309.

(*) Jari Liski, Alexander V. Korotkov, Christopher F.L. Prins, Timo Karjalainen, David G. Victor and Pekka E. Kauppi, 2003, "Increased Carbon Sink in Temperate and Boreal Forests," *Climatic Change* 61, pp. 89-99.

(*) David G. Victor and Rebecca U. Weiner, 2003, "Will the Success of Trade Policy Undermine the World Trading System?," *Les Cahiers d'économie et sociologie rurales*, volume 68-69, pp. 150-165.

(*) David G. Victor, Nebojša Nakicenovic, Nadejda Victor, 2001, "The Kyoto Protocol Emission Allocations: Windfall Surpluses for Russia and Ukraine," *Climatic Change*, vol. 49, pp. 263-277.

(*) Andreas Schafer and David G. Victor, 2000, "The Future Mobility of the World Population: Results from a New Model Designed for Aggregated Long-term Projections," *Transportation Research A*, vol. 34, pp. 171-205.

(*) David G. Victor and Gordon J. MacDonald, 1999, "A Model for Estimating Future Emissions of Sulfur Hexafluoride and Perfluorocarbons," *Climatic Change*, vol. 42, pp. 633-662.

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OTHER INFORMATION

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Governing and Advisory Boards: Advisory Council of the Electric Power Research Institute (Chairman 2011-2013; vice-chairman 2008-2011); Board of Directors of the Electric Power Research Institute (member, 2013-2019; member of the compensation and leadership development committee); 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, chaired by George Shultz (member since 2008); 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-); Advisory Board for EarthEra (2009-2015); Alternative energy Future Project of the American Academy of Arts and Sciences (member 2010-2014); Surya team on emissions from cookstoves in India, co-chaired by V. Ramanathan, Scripps Institute of Oceanography (member of the policy team since 2011).

Writing teams: IPCC Fifth Assessment Report (Convening Lead Author for Chapter 1 of Working Group 3, writing team for the Summary for Policymakers); 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; National Academies of Science, Engineering and Medicine, consensus study report on The Future of Electric Power in the United States, member; 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); National Research Council, member, consensus study report team, The Future of Electric Power in the U.S. (2018-present); National Research Council, member, consensus study report team, Enhancing the Resilience of the Nation's Electricity System. (2015-2017).

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 Global Environmental Politics, International Journal of Forecasting, Intergovernmental Panel on Climate Change, International Organization, International Studies Quarter, Journal of Ecological Economics, Journal of Energy Policy, Journal of Environmental Economics and Management, Journal of Conflict Resolution, Journal of International Dispute Settlement, Journal of Politics,

Law & Economics, Macarthur Foundation , MIT Press, National Science Foundation, Millennium, Mitigation and Adaptation Strategies for Global Change, Nature Nature Climate Change, National Science Foundation , Nordic Environmental Research Programme , Oxford University Press , Pacific and Asian Journal of Energy; Policy Sciences, Perspectives on Politics, Policy Research, Princeton University Press, Proceedings of the National Academy of Science, Regulation and Governance, Sloan Foundation, Science Utilities Policy, Swiss National Science Foundation, Transnational Environmental Law, United Nations Development Programme, World Politics, Presentation of papers and lectures:

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

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