

VERMONT LAW SCHOOL
Institute for Energy
and the Environment

Annual Report 2011-2012

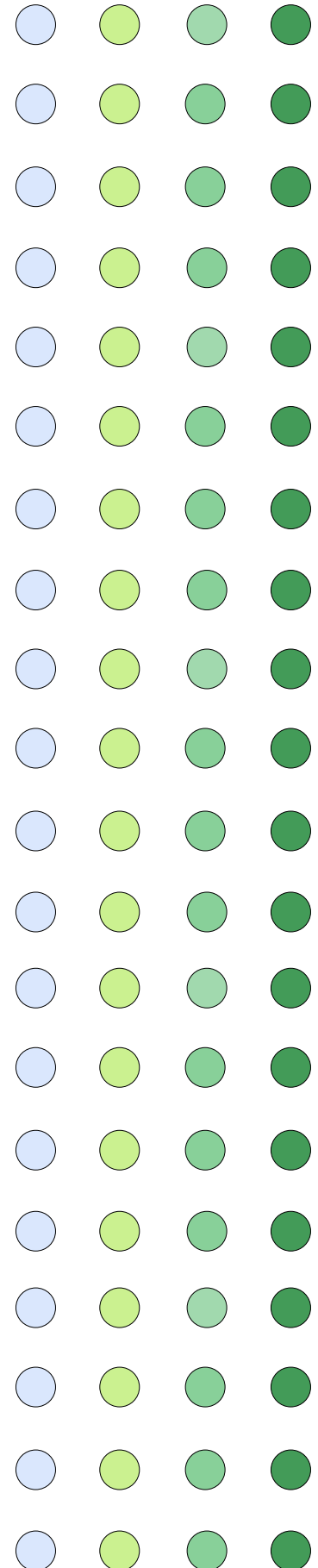


Institute
for Energy
and the
Environment

VERMONT LAW SCHOOL

Contents

Who We Are	2
Our Mission	4
Institute Staff	5
Senior Research Fellows	6
LLM & JD Research Fellows	9
Research Associates	11
Where Our Graduates Go	17
What We Do	21
Our Impetus: Climate Change	21
Our Tool: Academics	21
Research and Presentations	24
Our Research Projects	27
Appendix	36
IEE Publications	36
IEE Authors in Other Publications	37
IEE Presentations	40
Contact	51



Who We Are.

A Message from the Director, Michael Dworkin

In the 2010-2011 academic year, the Institute for Energy and the Environment solidified the best energy and environmental academic curriculum in the country, reached out to thousands with presentations, saw graduates find important and satisfying jobs, and doubled our commissioned research revenue.

When we launched the Institute for Energy and the Environment at Vermont Law School, we had four principles in mind:

- If you care about the environment, energy policy is the most important influence on what you care about.
- If you care about energy, the environmental realities are your most important constraint.
- In our society, disputes about these issues are resolved in our legal system, and
- Vermont Law School, through its courses, its research, and its advocacy work, can work with and improve that system.

To address those four principles, we created the Institute for Energy and the Environment at Vermont Law, building a program with two wings:

- Striving to be America's leading academic program in the area with one autumn, two spring, and six summer courses on the energy/environment interface leading to a (hard-to-earn) Certificate in Energy Law for serious and talented JD, LLM and MELP students, and
- Creating a world-class center for academic and commissioned research and intellectual advocacy.

In the 2010-2011 academic year, our presented eight significant publications, made more than twenty presentations to more than 5,000 concerned professionals in ten states and three countries (including detailed work as both hosts and guests of the State Electricity Commission of China), and collected more than \$1,000,000 in revenue for commissioned research, aimed at increasing the efficiency of U.S. and world energy systems.



At the same time, we have watched our graduates bloom in careers with a diverse range of employers, from the leading law firms, to the U.S. EPA and FERC and utility commissions from China to Washington, DC to Hawaii.

That sounds like a great year, and in many ways it felt like one, too. But. . . but. . . but, alas global emissions rose by 5% in 2010-2011 – an unprecedented increase of heat-trapping carbon dioxide.

We have a long race ahead of us, and the small steps we have taken in the last year, the relationships and tools we have developed, and the students we have trained will be advancing our cause in that race for decades to come. We remain focused on several critical goals:

- Fewer dollars and pollutants caused by waste;
- Fewer greenhouse gasses for 50 years because of what we do now; and
- Fewer greenhouse gases in 100 years because of what our students and our peers do tomorrow.

Obviously, we welcome both the support and the achievements of those who share our goals. Good fortune to us all, as the work continues.

Michael Dworkin
Professor of Law and Director
Institute for Energy and the Environment





Our Mission

The mission of the Institute for Energy and the Environment is to produce quality sustainable energy policies for the national and international community. We accomplish this by offering a nation-leading curriculum on energy law and policy, and by presenting comprehensive research analysis, and presentations.

Energy and the environment go hand-in-hand because an enormous share of the earth's environmental issues arises from the use of energy. Energy policy is the single most significant influence on the environment, and environmental issues are the most important constraint on energy. The discussion on energy and the environment covers a wide spectrum of disciplines—including law, science, engineering, finance, and economics. Researchers and staff of IEE examine these components and provide a rigorous evaluation of the critical energy issues of our time.

“Our mission is to have fewer greenhouse gases in 50 years because of the work we do today, and in 100 years because of the work our students do tomorrow.”

Michael Dworkin, Director
Institute for Energy and the Environment

Overview of the Institute

Vermont Law School is known for its robust law school program on the energy and the environment. Its Institute is a resource for energy law and policy at the international, national and local levels. The Institute's research team produces technical and practical publications on pressing energy topics, including: smart grid innovations, energy self-reliance, carbon sequestration, and renewable energy sources. The Institute also facilitates forums and conferences for professional education and issue

development, regularly hosts distinguished visiting energy scholars, and serves as a center for doctoral research on energy issues.

Under the leadership of Michael Dworkin, the Institute employs seven full-time professionals, each a nationally recognized expert in energy law and policy; several post-graduate fellows with years of professional achievement; and more than a dozen graduate students as research associates. Selected from the top students in the energy and environmental programs at Vermont Law School (VLS), the Institute's research team represents a concentration of the law school's intellectual talent.

The Institute is modeled on the fundamentals of a successful public policy consulting firm, committed to delivering vital services that are on-point and timely. Whether advising federal and state governmental agencies or providing critical research to public and private organizations, the Institute delivers exceptional value to a host of clients while training students for placement in attractive jobs after graduation. Additionally, the Institute offers the Certificate in Energy Law to all VLS students, which provides them with energy research opportunities during the academic year and the summer session.

Institute Staff



Michael Dworkin

Director and Professor of Law

Michael Dworkin is a leader in America's energy and environmental sectors. He has been a utility regulator, an environmental litigator, and a successful small businessman. His BA is from Middlebury College and his JD is from the Harvard Law School. Professor Dworkin clerked for the D.C. Court of Appeals, represented U.S. EPA in appellate litigation, and was general counsel of the Vermont Public Service Board before becoming its chairman for six years. He speaks frequently at conferences and with clients, addressing energy policy, costs, and potentials. He is a director on the board of the Vermont Energy Investment Corporation, and has served on the board of the Electric Power Research Institute and the American Council for an Energy Efficient Economy. In 2003 he accepted, on behalf of the Vermont Public Service Board, one of the Kennedy School of Government's five annual awards for innovation in government. In 2008 he was honored by the National Association of Regulatory Utility Commissioners with the Mary Kilmax Award for career achievements helping to promote clean energy, good government, the environment.



Donald M. Kreis

Associate Director and Assistant Professor of Law

Donald Kreis previously served as general counsel to the New Hampshire Public Utilities Commission, where he was involved in legislation, rule making, and contested cases dealing with electric industry restructuring, renewable energy, energy efficiency, carbon cap-and-trade initiatives, utility mergers, and ratemaking. Professor Kreis has served judicial clerkships with the Vermont Supreme Court, the U.S. District Court for the District of Maine, and the Maine Supreme Judicial Court. He received a BA from Middlebury College, a JD from University of Maine School of Law, and an MS from Columbia University Graduate School of Journalism.



Jennifer Thomas

Institute Coordinator

Jenny Thomas received a BA in English Literature and Theology from Houghton College, Houghton, NY and her M.A. in Literature and Creative Writing from Binghamton University. In addition, Jenny taught literature and writing at Marist College and Mount St. Mary's College. After moving to Vermont, Jenny was employed at Dartmouth College, as a recruiting consultant in Career Services at the Tuck School of Business and as Director's and Editorial Assistant at the University Press of New England.

Senior Research Fellows



Betsy Baker

Associate Professor of Law and Senior Research Fellow for Oceans and Energy

Betsy Baker brings her knowledge of international law and organizations to emerging issues in oceans and energy resources. Teaching and writing about law of the sea led her to her current work in the Arctic Ocean, as part of the science crew mapping the U.S. continental shelf. She has worked at law firms and research institutions in the U.S. and Germany, earning her BA from Northwestern University, her JD from Michigan, and her LLM and Dr. iur. from Kiel's Christian Albrechts-Universitaet in Germany, where she lived and worked for over a decade. She is an Affiliated Professor of Arctic Law and Policy-University of Alaska Fairbanks Department of Geography and a member of the Arctic Law Thematic Network, University of the Arctic. She serves on the Advisory Board of the

International for Environmental Diplomacy and Security at the University of Vermont. She has twice been a member of the science crew on the U.S. Coast Guard cutter Healy Arctic Ocean extended continental shelf mapping (2008 and 2009) and was a Dickey Fellow at the Institute of Arctic Studies, Dartmouth College, New Hampshire (2009-2010). Baker speaks frequently on issues of law, science and environment in the Arctic, having testified to the Canadian Senate, presented to the German Foreign Office, and spoken at numerous venues in North America and Europe, including the U.S. Naval Academy, the Center for Ocean Leadership, and the Woodrow Wilson Center for Scholars.



Peter Bradford

Adjunct Professor and Senior Research Fellow

A former member of the United States Nuclear Regulatory Commission and former chair of the New York and Maine utility regulatory commissions, Peter Bradford has taught at the Yale School of Forestry and Environmental Studies and currently is an Adjunct Professor at Vermont Law School teaching “Nuclear Power and Public Policy”. A member of the China Sustainable Energy Policy Council, he served on a recent panel evaluating the reliability of the Vermont Yankee nuclear power plant, on the European Bank for Reconstruction and Development Panel advising how best to replace the remaining Chernobyl nuclear plants in Ukraine, a panel on the opening of the Mochovce nuclear power plant in Slovakia, and the Keystone Center collaborative on nuclear power and climate change. He is the author of “Fragile Structures: A Story of Oil Refineries, National Securities and the Coast of Maine” and many articles. He is a graduate of Yale University and the Yale Law School and is Vice Chair of the board of The Union of Concerned Scientists.



Mark Cooper

Senior Research Fellow for Economic Analysis

Mark Cooper is a Senior Research Fellow for Economic Analysis at the Institute for Energy and the Environment; his current project is Energy Assessment. Dr. Cooper holds a PhD from Yale University and is a former Yale University and Fulbright Fellow. He has provided expert testimony in over 250 cases for public interest clients including Attorneys General, People’s Counsels, and citizen interveners before state and federal agencies, courts, and legislators in almost four dozen jurisdictions in the U.S. and Canada. Dr. Cooper has published numerous books and articles on energy, telecommunications and high technology industries.



Kevin Jones

Smart Grid Project Leader

Seeking solutions to the energy and environmental policy challenges facing the electric power industry has been the focus of Kevin Jones' career. Dr. Jones has been at the center of the transformation of the electric power industry in the Northeast as the Director of Power Market Policy for the Long Island Power Authority (LIPA) and as the former Director of Energy Policy for the City of New York. LIPA is one of the largest municipal utilities in the country and is a leader in energy conservation and alternative energy technologies. While at LIPA, Kevin collaborated on energy policy with both the Large Public Power Council and the New York Transmission Owners. He has also consulted on energy issues as an Associate Director with Navigant Consulting and Resource Management International. Kevin received a Ph.D. from Rensselaer Polytechnic Institute's Lally School of Management and Technology, a Masters from the LBJ School of Public Affairs, University of Texas at Austin and a BS from the University of Vermont. While at RPI, Kevin taught Managing Energy Issues in the Environmental Management and Policy Program. His doctoral research compared the market-based approach to regulating Acid Rain in the U.S. to the command and control approach of the European Union.



Benjamin Sovacool

Visiting Professor and Senior Fellow for Energy Security & Justice

Dr. Benjamin K. Sovacool is currently a Visiting Associate Professor at Vermont Law School, where he manages the Energy Security and Justice Program at their Institute for Energy & the Environment. His research interests include the barriers to alternative sources of energy supply such as renewable electricity generators and distributed generation, the politics of large-scale energy infrastructure, designing public policy to improve energy security and access to electricity, and building adaptive capacity and resilience to climate change in least developed Asian countries. He has served in advisory and research capacities at the National University of Singapore, U.S. National Science Foundation's Electric Power Networks Efficiency and Security Program, Virginia Tech Consortium on Energy Restructuring, Virginia Center for Coal and Energy Research, New York State Energy Research and Development Authority, Oak Ridge National Laboratory, Semiconductor Materials and Equipment International, U.S. Department of Energy's Climate Change Technology Program, Union of Concerned Scientists, the International Institute for Applied Systems and Analysis near Vienna, Austria, and the International Energy Agency in Paris, France. He has also consulted for the Asian Development Bank, United Nations Development Program, and United Nations Economic and Social Commission for Asia and the Pacific. He is the author or editor of eight books and more than 130 peer reviewed academic articles on various aspects of energy and climate change, and he has presented research at more than 60 international conferences and symposia in the past few years. He is a frequent contributor to *Energy Policy*, *Energy & Environment*, *Electricity Journal*, *Energy*, and *Energy for Sustainable Development*.

LLM & JD Research Fellows



Christopher Cooper

JD Candidate 2013

Senior Research Fellow, Energy Security and Justice Program

Christopher Cooper graduated from Wake Forest University with a B.A. in politics with minors in religion and vocal music. He earned an M.A. in Communications from the University of Miami, where he also coached the debate team and taught debate theory and argumentation. Chris then worked for the American Planning Association (APA), advocating for sustainable community development. After spearheading grassroots gay & lesbian voter outreach for the 2004 Howard Dean presidential campaign, he worked as public relations director for the Global Resource Action Center for the Environment (GRACE) where he helped orchestrate a nuclear abolition march on the United Nations during the 2005 review of the global Non-Proliferation Treaty. He also founded the Network for New Energy Choices (NNEC), serving as its Executive Director and Senior Policy Director until 2008. At NNEC, he authored *Freeing the Grid*, the first-ever grading and ranking of state net metering policies and co-wrote *Renewing America*, a comprehensive analysis of federal renewable portfolio standards that was used as a briefing book during the U.S. Senate debate over RPS legislation in 2007. He has advised Members of Congress on renewable energy policy and provided expert testimony for transmission siting cases before the Virginia State Corporation Commission and the New Jersey Board of Public Utilities. Chris also has worked as an actor, speech writer, chef, bartender and club DJ. His interests include voltage stability, transmission financing and the Tesla Model S.



Roman "Roma" Sidortsov

JD, LLM

Senior Global Energy Fellow

Roma received his first law degree (Bachelor's and Master's with highest honors) in the Russian Federation from Irkutsk State University in 1999. Upon graduation, Roma joined an American non-profit organization as an in-house counsel where he specialized in corporate, labor and tax matters. After relocating to the United States, Roma continued his legal career as a paralegal, law clerk and foreign attorney in Chicago, IL and Phoenix, AZ. Roma received a J.D. degree, magna cum laude, from Vermont Law School in 2008. In law school, Roma concentrated on environmental and energy law and served as an editorial staff member at Vermont Journal of Environmental Law. Upon graduation, Roma joined Gravel and Shea, a law firm based in Burlington, Vermont. At Gravel and Shea, Roma focused on a variety of transactional matters, including energy-related financing, permitting, tax and real estate issues. Roma also helped to organize the firm's energy practice. Currently, Roma is a Senior Global Energy Fellow at the Institute for Energy and the Environment

of Vermont Law School. He is also pursuing an LLM degree in environmental law there. Additionally, Roma teaches law at Marlboro College Graduate School's Managing for Sustainability MBA program. Roma is involved in exploring a variety of legal and policy issues related to development of environmentally sustainable energy systems. He focuses his research on legal and policy issues surrounding transition to a low-fossil fuel economy and Arctic offshore oil and gas development with a special emphasis on the Russian Federation.



Rebecca Wigg
Smart Grid Fellow

Rebecca Wigg graduated from The Ohio State University in 2002 with a BS in Environmental Science and a minor in Environmental Economics. Upon graduation, she joined the Midwest Energy Efficiency Alliance (MEEA), where she coordinated a nine-state campaign to advance energy efficiency policies, overhauled the organization's communications strategy, and organized the annual Midwest Energy Solutions Conference. Rebecca recently completed Peace Corps service in the Middle Atlas Mountains of Morocco where she taught English, conducted an environmental education workshop for elementary school teachers and chaired the Gender and Development Committee. Interested in the potential to use clean energy policies to stimulate development in North Africa, Rebecca completed a Masters in Environmental Law and Policy and an Energy Law Certificate at VLS in August 2011. Rebecca is working with the Smart Grid team to research policy implications for widespread adoption of electric vehicles.

Research Associates



Danielle Changala

JD Candidate 2013

Danielle Changala graduated cum laude from the University of California, San Diego with a double major in political science and psychology. After college, Danielle interned with New Generation Energy, a non-profit renewable investment firm focusing on extending capital from private investors to community-level renewable energy projects. Danielle completed her Masters in Environmental Law and Policy in 2010 while earning the Certificate in Energy Law. Danielle spent last summer interning with the Conservation Law Foundation in Boston where she worked in the Clean Energy and Climate Change program area. Danielle was published in the Energy Law Journal in 2011 for her article analyzing the necessary legal regimes for successful implementation of plug-in hybrid electric vehicles.



Shannon Clarke

JD Candidate 2013

Shannon Clarke received a B.A. in Sociology from the University of North Florida. During her undergraduate education, she worked as a research assistant for the Journal of Energy Security. After graduating, she was hired as an energy and environmental intern for the National Association of Counties (NACo). At NACo, Shannon provided technical support to counties on renewable energy, energy-efficiency and sustainable development. Most recently, Shannon was the local government relations consultant for the American Institute of Architects' (AIA) national office in Washington, DC. At AIA, she conducted research on local government sustainability, green building policy and green economic development. Shannon was a political consultant for a county in Florida, and was awarded a fellowship to work at the Democratic National Committee. She has interned for a U.S. Senate Homeland Security subcommittee and the Office of U.S. Senator Bill Nelson. Shannon is the content editor of the Forum, Vermont Law School's student-run newspaper, and chair of the Business Law Society's Entrepreneurship Collaborative. Shannon's interests include: energy infrastructure development, entrepreneurship, and rural electrification.



Laura Colangelo

JD Candidate 2012

Laura Colangelo graduated summa cum laude from the University of Notre Dame, where she founded the total immersion-based ND Italian Theater Company and subsequently spent several years teaching and directing plays in Italian. Shifting careers, she then earned an MS in Aquatics and Water Policy from the School of Natural Resources and Environment at the University of Michigan. Her

Masters Project team created a 10-year strategic and financial plan for a client nonprofit organization that sought to incorporate social enterprise into its programming. Laura has worked with the USGS and the Huron River Watershed Council on stream monitoring, mapping, and statistical graphing. She founded and currently chairs the VLS Freshwater Working Group, and is an active member of the VLS Environmental Law Society and the Dispute Resolution Society. Laura's interests include the effects of hydropower on aquatic ecosystems and the use of collaborative processes in energy policy creation.



Meredith Crafton

JD/MELP Candidate 2012

Meredith Crafton is pursuing a JD, a Master of Environmental Law and Policy, and an Energy Law Certificate from Vermont Law School. She is also the Co-Chair of the Equal Justice Foundation and the Advocacy Chair of the Environmental Law Society, and looks forward to a career working for energy justice and sustainability. Meredith's passion for public interest law has been reinforced through recent internships with the Environmental & Natural Resources Law Clinic and the South Royalton Legal Clinic. Meredith completed her undergraduate at Hampshire College in 2004 with a degree in Sustainability Studies, where she worked on the college's organic farm and for the Civil Liberties and Public Policy Program. After graduating, Meredith spent a year living on Mount Rainier and then moved to Seattle where she worked for the Government Accountability Project's Nuclear Oversight Program. While there, Meredith organized an international conference in St. Petersburg, Russia for activists, lawyers, scientists, engineers and whistleblowers. She also coordinated an investigation into a whistleblower's concerns regarding quality assurance and safety at Hanford's Waste Treatment Plant, which was featured on 60 Minutes. Meredith then assisted in the formation of Hanford Challenge, a Seattle-based nonprofit organization devoted to overseeing and improving the cleanup underway at the Hanford Nuclear Site. Meredith has also been known to run away with the circus and pursue her love of acrobatic jump rope through performing with a variety of companies, including Ropeworks and Cirque du Soleil Special Events.



Jay Eidsness

JD Candidate 2013

Jay Eidsness graduated with a BA from Saint John's University in central Minnesota. His undergraduate studies centered on biology, with specific emphasis on ecology and plant science. In the spring of 2007, Jay collected botanical data in backcountry Idaho as part of a biological opinion commissioned by the US Forest Service. His involvement with the biological opinion gave him an inside view as to how national environmental law and policy plays out in the field, which ultimately spurred his decision to attend law school at VLS. During the summer of 2011, Jay worked for Central Minnesota Legal Services, a legal aid law firm in Minneapolis. His experience at CMLS gave him a greater knowledge of the legal process and cemented his desire to advocate on behalf of the

marginalized and voiceless. At VLS Jay has focused his extracurricular activities on community building. He is currently mentoring a second grader at a neighboring elementary school and partnering with community members and fellow students to provide a free meal every Friday night. Jay's activities include gardening, soccer, and biking to and from work in the subzero temperatures of his native Minneapolis.



Colin Hagan

JD Candidate 2012

Colin Hagan holds a BA in political science and English from Furman University. Colin previously served as the Federal Policy Associate at the Southern Alliance for Clean Energy. He analyzed legislation, served as a liaison to Congress and authored testimony for several congressional hearings on energy legislation. In law school, Colin has researched constitutional issues related to federal climate legislation and served as a law clerk at the Clean Air Task Force, where he researched legal issues related to air toxics, greenhouse gases and renewable fuels. He has also served in the Summer Honors Program at the U.S. Environmental Protection Agency's Office of General Counsel, focusing on federal air pollution regulation. Colin's work at the Institute has involved carbon capture and sequestration, energy efficiency financing, privacy regulations for Smart Grid data, and renewable energy integration into the electric grid. In 2011, the Robert and Patricia Switzer Foundation selected Colin as a Switzer Environmental Fellow. His article, "Closing the Gap: Using the Clean Air Act to Control Lifecycle Greenhouse Gas Emissions from Energy Facilities," is forthcoming in the UCLA Journal of Environmental Law and Policy.



Graham Jesmer

JD Candidate 2013

Graham Jesmer graduated from St. Michael's College, Vermont with degrees in both Economics and Journalism. Immediately following college Graham worked as a producer at WXXI-TV in Rochester, New York, where he covered local business and politics. Graham's areas of expertise are renewable energy policy and market trends, which he developed while working for RenewableEnergyWorld.com, a leading industry trade publication. During his time with the publication, he covered the solar, wind and bioenergy sectors extensively, publishing stories on a wide variety of topics including Property Assessed Clean Energy (PACE), tax equity financing, federal energy legislation and the progress of the fledgling U.S. offshore wind market. He also did on-camera reporting live at industry events across a variety of sectors including Solar Power International, Windpower, Renewable Energy World Europe and Intersolar, speaking with industry and political leaders from around the world. Graham has also worked as a Government Affairs Intern with the Solar Energy Industries Association in Washington, D.C. where he did work related to FERC the FTC, SEC and federal tax policy. He is currently pursuing his JD at Vermont Law School.



Katie Johnson

JD Candidate 2013

Katie Johnson graduated summa cum laude from Otterbein University with a Bachelor's of Science in economics. During her undergraduate career, Katie served on the Otterbein University Board of Trustees and the University's Sustainability Committee where she worked to implement sustainable initiatives in the University's strategic plan. Additionally, Katie studied economics at the University of Maastricht in the Netherlands. After graduation, Katie studied French in Toulouse, France and upon returning worked as a financial planning assistant with First Citizens National Financial Group. Most recently, Katie worked in the Energy and Environment Department of the Public Utilities Commission of Ohio to implement the State's alternative energy portfolio standard.



Sophia Kruszewski

JD Candidate 2013

Sophia graduated magna cum laude from the University of Michigan with a BS in Environmental Science and a minor in Spanish. Upon graduation, Sophia worked as a plant pathology field researcher and then as a teacher; developing and implementing experiential science curricula for public schools in Massachusetts and New York. Most recently, Sophia was the Environmental Policy Associate at the Center for Food Safety, a Washington DC-based public interest advocacy organization. As Policy Associate, Sophia worked to advance federal food and agriculture policy that promoted the interests of consumers, farmers, and the environment. At VLS, Sophia is a staff member of the Vermont Law Review and serves on the Executive Board of both the Environmental Law Society and the Food and Agriculture Law Society. Hailing from a Michigan farming family, Sophia's research interests include the practical and policy implications of the convergence between agriculture and climate change.



Elena Mihaly

JD Candidate 2013

Elena Mihaly graduated from Colorado College in 2007 with a BA in Environmental Science. While finishing her undergraduate degree, Elena also pursued a certification from the American Mountain Guides Association and became a professional rock climbing guide in 2006. After graduating and guiding, Elena moved to Southern France where she taught environmental science and global energy curriculum to international high school students. Elena then worked in South Africa for an international study abroad program, coordinating a summer-long course in ecology and cultural history. Elena is also interested in food and agriculture policy. Before enrolling at VLS, she worked on a Healthy Weight Initiative at the Vermont Attorney General's office, and then for six months on a small-scale Vermont dairy farm. At VLS, she is pursuing her JD and Masters in Environmental Law and Policy. She is an active member of the Food and Agriculture Law Society, and is currently co-authoring a chapter with Professor Jason Czarnezki in a forthcoming book on Food and Agriculture Policy.



Carey Rosser

JD Candidate 2012

Carey Rosser graduated with high honors from the Georgia Institute of Technology with a BS in Aerospace Engineering and a minor in pre-law. While at Georgia Tech, she worked for Gulfstream Aerospace Corporation in various departments involved with different phases of aircraft design and construction. While working on aircraft acoustic requirements, she collaborated with NASA for experimental design and data analysis. Prior to coming to Vermont Law School, Carey worked in Rwanda with the Dian Fossey Gorilla Fund International on sustainability education and other programs for communities living at the edge of the Volcanoes National Park. At VLS, Carey is enthusiastically involved with the Campus Greening Committee.



Allie Silverman

JD Candidate 2012

Allie Silverman graduated from Brown University where she pursued a degree in environmental studies and wrote an honors thesis on urban agriculture, community planning, and campus farming. After graduating, she lived in Panama on a Fulbright grant, where she implemented a solar rural electrification project that established a night school for adults and a community fund to run and maintain the energy systems. Allie then worked for almost three years at the Natural Resources Defense Council, where she coordinated a "BioGem" campaign in Chile to promote energy alternatives to an ill-conceived massive hydroelectric scheme. At VLS, she is pursuing her JD and MELP degree. She also works at the Energy Institute, is co-chair of the Campus Greening Committee, a Schweitzer Fellow working on community energy efficiency efforts, a China Fellow researching environmental activism and green jobs, a member of the Dartmouth Energy Collaborative and a research assistant for Gus Speth's work involved with moving beyond consumerism and reinvigorating environmental activism. In her spare time, she enjoys life outdoors training for triathlons, hiking in the green mountains with friends and family, and daydreaming in Spanish.



Katie Thomas

JD/ MELP Candidate 2013

Katie currently serves on the Smart Grid Team at the Energy Institute. She is working on her J.D., Masters in Environmental Law and Policy, and a Certificate in Energy Law. She graduated magna cum laude from Southern Illinois University – Carbondale in 2009 with a B.A. in Political Science and minors in Spanish and Environmental Studies. Katie attended college on a full-ride competitive debate scholarship. She was the only female on her team. During college she co-organized a campaign to pass a green fee that established a fund for renewable energy and energy efficiency projects on campus. After college she spent a year working first for the U.S. Student Public Interest Research Group in St.

Louis, MO and then for a company that sells and installs renewable energy systems in eight states in the Midwest. She is currently pursuing a classroom and experiential education in energy law. She serves as the Vermont Law GLBT Alliance Co-Chair and is active in the Vermont chapter of 350.org, an organization fighting climate change. Katie grew up in Fort Collins, Colorado.



Jonathan Voegele

JD Candidate 2012

Jonathan Voegele graduated from the University of Chicago in 2004 with an AB in political science and a minor in Slavic languages & literature. In 2006 he earned his MA in politics with an international politics specialization from New York University. While in graduate school, he worked as a research assistant at the Office of the New York State Attorney General and as a research analyst at the Center on Law and Security at New York University School of Law. At the Center on Law and Security, Jonathan edited and researched for law review articles and three manuscripts on torture, al Qaeda and the war on terror which were later published. Jonathan then moved to Baltimore, MD, and worked for three years as a legal assistant in a cross-border corporate transactions and trade advisory practice at Steptoe & Johnson LLP in Washington, DC. At Steptoe, Jonathan assisted drafting licensing, supply and sourcing contracts, including those for wind turbines. During the summer of 2010, he worked at the Environmental and Natural Resources Law Clinic at Vermont Law School.



David Zoppo

JD Candidate 2013

David Zoppo graduated from the University of North Carolina at Chapel Hill in 2010, with a major in Political Science and a minor in History. Throughout his undergraduate career, David worked in various capacities at several small businesses in the Raleigh, NC area. He has worked in fields such as sales, accounting, business development, internet marketing, and website content moderation. In the Fall of 2008, David traveled to Cape Town, South Africa to study politics and development in contemporary South Africa. While there, he also worked with the AIDS Law Project to help provide humanitarian relief and legal advocacy for refugees, asylum seekers, and immigrants who were displaced as a result of a series of xenophobic attacks that took place earlier that year. The summer after his 1L year, David worked as an intern for the in-house counsel at ABB, Inc., a global leader in power products, power automation systems, and other high and low voltage equipment that is used in generation, transmission and distribution systems throughout the world. In addition to working as a researcher at the IEE, David also serves on the production staff of the Vermont Law Review.

The Journey: Where Our Graduates Go

After graduating completing VLS's Energy Program, students have successfully obtained positions at law firms that focus on energy and environmental issues, government agencies, energy companies, and other environmental organizations. Below is a sampling of notable placements.

2006 Energy Graduates

Andrew Harris, JD/MSEL | After graduating, Andrew worked for Pacific Gas & Electric. He is now the Managing Director of Turtle Island Restoration Network in San Francisco, CA.

T.J. "Walter" Poor, MSEL | After graduating, Walter worked as an Utilities Economic Analyst for the State of Vermont. He is currently the Regulated Efficiency Programs Manager at the Vermont Department of Public Service.

Carter Scott, JD | Carter is currently the Transmission and Interconnection Associate at First Wind in Portland, ME. She also serves as the President of the Board of Directors for the South Portland Land Trust.

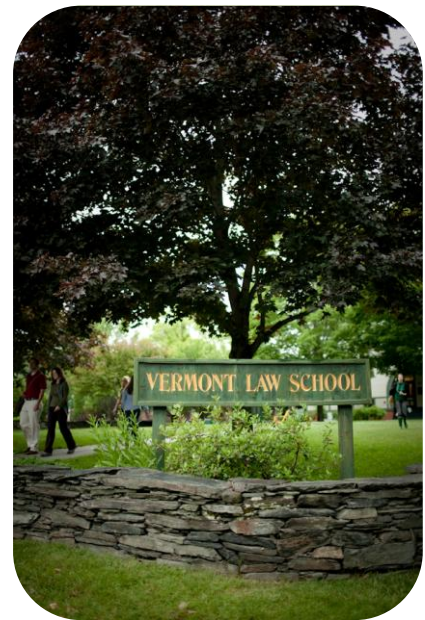
2007 Energy Graduates

Christopher Aslin, JD/MEM | Christopher participated in the joint degree program with Yale School of Forestry, earning a Masters in Environmental Management. He is currently a litigation attorney at Bernstein Shur.

Shanna Cleveland, LLM | Currently, Shanna works for the Boston office of the Conservation Law Foundation as a Staff Attorney in Clean Energy and Climate Change Program.

Rachel Goldwasser, JD/MEM | Rachel participated in the joint degree program with Yale School of Forestry, earning a Masters in Environmental Management. For one year, she clerked for the U.S. District Court of Maine. She now works as an attorney at Orr & Reno in Concord, NH. Rachel is also a Board Member of the Conservation New Hampshire.

Robert "Lee" Gresham, JD | After graduating from VLS, Lee completed a PhD in engineering and public policy at Carnegie Mellon School of Engineering. Lee now works as a Senior



Consultant at SAIC Energy, Environment, and Infrastructure in Boston, MA.

Alicia Loving, JD | Alicia now works for Austin Energy in Austin, Texas as a Federal Energy Legislation Analyst.

2008 Energy Graduates

Elizabeth “Betsy” Catlin, JD | After graduating, Betsy clerked for Vermont Supreme Court. Currently, she is an attorney at Dunkiel Saunders Elliott Raubvogel & Hand, an environmental law firm in Burlington, VT.

Natalie Firestine, JD | Natalie currently works for the U.S. Environmental Protection Agency as an Attorney-Advisor.

Laura Furrey, JD | After graduating, Laura worked as a Research Associate for the American Council for an Energy-Efficient Economy. Currently, she works as an Electricity Specialist at the Arizona Corporation Commission.

Amanda Mott, JD | After graduating, Amanda worked as an Associate Attorney in the Environmental Litigation Practice group of DeWitt, Ross & Stevens in Wisconsin. Currently, she works in the Office of Energy Independence for the State of Wisconsin.

Quoc Nguyen, JD | Quoc works as an Attorney-Advisor for the U.S. Environmental Protection Agency in Washington, DC.

John A. Sautter, JD/MELP | John is currently a Judge Advocate for the U.S. Marine Corps. He is also an Adjunct Professor for Green Mountain College’s Sustainability MBA Program in Poultney, VT.

Christina Switzer, JD | After graduating, Christina worked as a Law Clerk at the Federal Energy Regulatory Commission. She is currently Staff Attorney for Federal Energy Regulatory Commission’s Office of General Counsel in Washington, DC.

2009 Energy Graduates

Megan Billingsley, MELP | Megan currently works at the Lawrence Berkeley National Laboratory, in its Electricity Market and Policy Area.

Caitlin Callaghan, JD | After graduating, Caitlin earned an AAAS Science and Technology Policy Fellowship, in which she worked for the U.S. Environmental



Protection Agency and the U.S. Department of Energy for two years. Caitlin currently works as an ORISE Fellow at the Office of Electricity at the U.S. Department of Energy.

Sara Kelly, JD | is a Law Clerk for the Washington State Court of Appeals, Division I.

Michael Kennedy, JD | Michael is an Associate Attorney at Latham & Watkins in New York City.

"Vermont Law School has long led the nation in addressing challenging questions related to energy and the environment."

Peter Welch, U.S. Representative, Vermont.

James Landis, LLM | James is currently the Lead Counsel at the Chief Naval Operations Energy and Environmental Readiness Division.

2010 Energy Graduates

David Contrada, MELP | David currently works for the Clarke Group, an environmental consulting firm in Washington, DC.

Clay Francis, MELP | After graduating, Clay worked as an energy lobbyist for VPIRG. He is currently a high school Spanish teacher in Tennessee.

Javier Garcia-Lomas Gago, LLM | Javier works as a lawyer at Perez Moreno LLP. He is also an Associate Professor of Law at the University of Seville, and a Summer Faculty at VLS.

Johnathan Hladik, JD/MELP | After graduating, Johnathan worked at the Nebraska League of Conservation Voters. He is currently an Energy Policy Advocate at the Center for Rural Affairs in Nebraska.

Patrick Joy, JD | Patrick works as a Corporate Associate Attorney at Weil Gotshal and Manges in Boston.

Brian Martin, JD | Brian is the Assistant General Counsel for the Vermont Department of Banking Insurance, Securities, and Health Care Administration.

Anna Skubikowski, JD | Anna is an Attorney-Advisor for the Office of General Counsel at the Federal Energy Regulatory Commission.

Louisa Yanes, JD/MELP | After graduating, Louisa worked as a Law Clerk for the Trustees for Alaska, and a Policy Researcher at Renewable Energy Alaska Project. She is now an Energy Organizer for the Alaska Center for the Environment.

2011 Energy Graduates

James E. Abraham, JD/ MELP | James is an Associate Attorney at Goodsill, Anderson, Quinn and Stifel in Hawaii. He is a part of the firm's public utilities and telecommunications practice group.

R. Benjamin Borowski, JD/MELP | Benjamin is an Associate Attorney at Preti Flaherty in Portland, ME. His practice area is energy law.

Rachel Bryant, JD | Rachel works as a Law Clerk at the Federal Energy Regulatory Commission in Washington, DC.

Dan Burke, JD/ MSEL | Dan is the Assistant to the Commissioner at the Maine Department of Conservation.

Aaron Kisicki, JD | Aaron is a Special Counsel at the Vermont Department of Public Service.

Jessica Reiss, JD | Jessica is a Senior Environmental Consultant at PRIZIM, Inc. in Washington, DC. She creates environmental management systems within government agencies.

Kevin Siqveland, JD/MELP | After graduating, Kevin worked as a Regulatory and Legal Fellow at the American Wind Energy Association. He now works at the Federal Energy Regulatory Commission as an Attorney-Advisor.

Matt Stern, JD/MELP | Currently, Matt works for the Clean Air Council in Philadelphia, a non-profit environmental organization committed to protecting public health, clean air, and promoting alternative energy resources.

Kari Twaite, JD/MEM | Kari participated in the joint degree program with Yale School of Forestry, earning a Masters in Environmental Management. She currently works for Beveridge & Diamond, an environmental law firm in Washington, DC.

Zhen Zhang, LLM | Zhen is a Visiting Attorney for the Natural Resources Defense Council in Beijing, China.

What We Do.

Our Impetus: Climate Change and the Future of Energy Policy

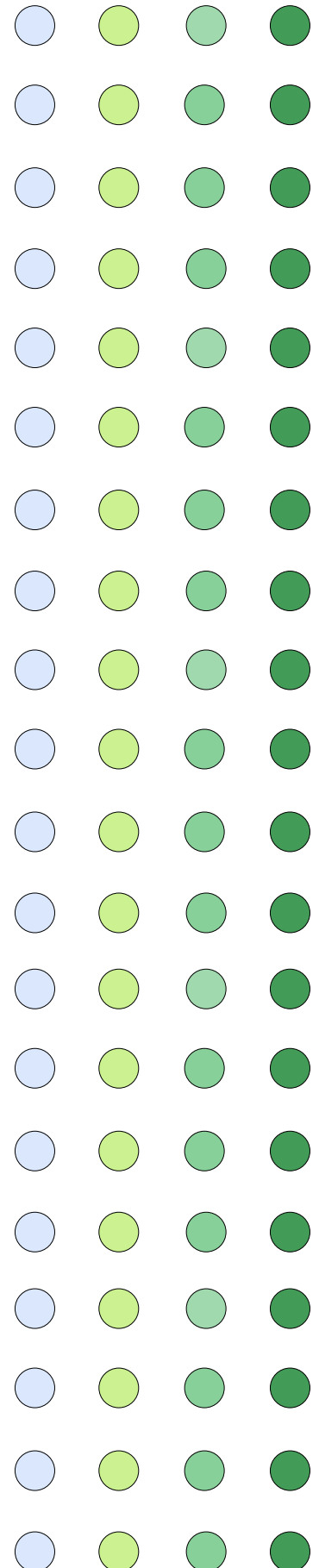
The threats posed by climate change are the energy sector's most important challenge, and energy policy is the world's most pressing environmental issue.

About 1.6 billion people, one-quarter of the world's population, lack electricity access, and roughly 2.4 billion people depend on substandard and unhealthy energy sources. Demand for energy is increasing at a staggering rate as developing nations realize the benefits that accompany electrification: improved nutrition and life expectancy, decreased infant mortality rates, literacy, population stability, and women's education and employment. Our concern is that, although electrification reduces carbon-intensity, compared to substandard energy sources, electricity generation is the world's largest source of carbon emissions. Its carbon emissions adversely affect the environment and contribute to climate change. We believe that the American legal system will be a conduit for addressing climate and energy challenges.

Our Tool: Academics

The regulation of energy throughout the states, nation, and the world presents one of the most important legal and policy challenges of the twenty-first century. To provide future lawyers with a complete understanding of the field, VLS—through the Institute— offers energy law courses with an environmental awareness. Students study how energy use impacts the environment, the global economy, and national security. Incorporating an “energy twist” into the environmental law curriculum is also rooted in practicality; future greenhouse gas regulation in the energy sector will create renewed demand for environmental regulatory lawyers. Additionally, the massive future build-out of renewable-energy and low-carbon-emission technologies will require environmental practitioners to obtain specialized knowledge of energy project development. Together, the VLS environmental law curriculum and the energy-focused programs offered by the Institute are designed to meet challenges and opportunities.

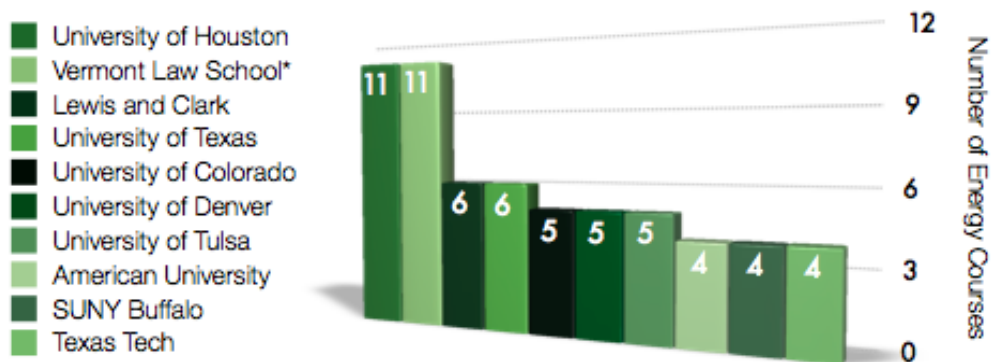
The Institute offers year-round, in-depth training in the fundamentals and developing aspects of energy law and regulation. Professionals and full-time



students both find stimulating coursework available through the Institute by attending one, two, or three-week summer courses and seasonal, multi-day conferences geared to their needs. Law students and graduate environmental policy analysts can earn degree credits and substantive knowledge of industry topics from a full slate of academic-year, summer, and on-line courses; advanced writing seminars; and research projects. Students can also concentrate in energy law and earn the Certificate in Energy Law. As VLS introduces the online version of its Masters program, the Institute is fully engaged in developing and offering the energy courses that will comprise the key aspects of this significant and globally accessible learning opportunity.

The Big Ten in Energy

These law schools offer the highest number of energy-specific courses.



Energy Courses at Vermont Law School

Academic Year

- Energy Policy in a Carbon Constrained World | Michael Dworkin
- Energy Regulation and the Environment | Don Kreis
- Advanced Energy Writing Seminar | Michael Dworkin

Summer

- America's Energy Crisis: Eight Fridays With National Experts | Seminar Series facilitated by Michael Dworkin
- Three Essentials of the Electric Grid | Alexandra von Meier, Seth Blumsack, Javier Garcia-Lomas Gago
- Renewable Energy & Other Alternative Fuels | Steve Weissman
- Nuclear Power & Public Policy | Peter Bradford
- Energy, Development, and Climate Change | Alan Miller and Oscar Avalor
- Renewable Energy Project Finance & Development | Glenn Berger
- Oil and Gas Production and the Environment | Jacqueline Weaver

The Institute also supports energy-related scholarship by annually hosting a Distinguished Visiting Energy Scholar, a Distinguished Energy Media Fellow, and offering a summer energy lecture series.

Guest Lecturers

Nora Brownell | *former Commissioner of Federal Energy Regulatory Commission (FERC) and Founder of BC Strategies.*

Norma Formanek | *Senior Vice President, Administration, General Counsel and Corporate Secretary, Electric Power Research Institute*

David Goldstein | *Distinguished Energy Scholar and Energy Program Director, Natural Resources Defense Council, San Francisco*

Dan Reicher | *Director, Climate Change and Energy Initiatives, Google Foundation*

Alexandra von Meier | *Associate Professor, Environmental Studies and Planning, Sonoma State University; Board of Directors, American Council for an Energy Efficient Economy*

John Wellinghoff | *Commissioner of FERC*

Distinguished Energy Scholars

2010: **David Goldstein** | *Energy Program Director, NRDC, San Francisco*

2009: **Joseph Kelliher** | *past Chairman of FERC*

2008: **Richard Cowart** | *Director, Regulatory Assistance Program*

2007: **Joseph Tomain** | *Dean Emeritus, University of Cincinnati College of Law and author of Energy Law in a Nutshell*

2006: **Amory Lovins** | *Cofounder, Chairman and Chief Scientist, Rocky Mountain Institute*

Distinguished Energy Media Fellows

2010: **Winnie Bird** | *Earth Island Journal*

2009: **Erica Geiss** | *New York Times*

Research and Presentations

In its sixth year of operation—with funding from foundations, state and federal governments, and businesses—the Institute has undertaken research and advocacy work in a broad range of energy related areas. Institute research projects generally falls into the following five clusters:

- Agricultural Efficiency
- Energy Efficiency
- Energy Justice
- Resource Extraction
- Smart Grid

Recent projects include: smart grid research on topics ranging from grid reliability and security to integration of electric vehicles; agricultural energy outreach work focused on energy efficiency and renewable energy; collaborative work with Carnegie Mellon University on Carbon Capture and Sequestration (CCS), integrating renewable electricity resources into the grid, and climate-change related decision making; and legal aspects of Arctic and Russian and offshore drilling. (*Current Institute research projects are summarized in Appendix I*).

Institute-based scholarship is also enhanced by the on-going work of four Senior Energy Fellows—Betsy Baker, Peter Bradford, Mark Cooper, Benjamin Sovacool—and Smart Grid Project Leader Kevin Jones.

Senior Research Fellow for Oceans and Energy, Betsy Baker, is committed to helping train a generation of lawyers fluent in the issues surrounding the increasing use of the world’s offshore areas to feed growing energy demands. An associate Professor at Vermont Law School and Senior Fellow for Oceans and Energy at the Institute for Energy and the Environment, Baker was drawn to the Institute in 2009 by its focus on applied scholarship. Her first project at the Institute engaged students in analyzing Canadian and U.S. regulation of offshore oil and gas activity in light of international guidelines produced by the Arctic Council working group on Protection of the Marine Environment. In this and other Institute projects, she draws on her classroom work in comparative law, property, international environmental law and international organizations and on her ongoing research on the interface between the law of the sea and the worlds of science and policymaking.



Her publications range beyond energy and the environment, but an Institute-relevant selection includes *Filling an Arctic Gap: Legal and Regulatory Possibilities for Canadian-U.S. Cooperation in the Beaufort Sea*, 34 Vermont Law Review 57 (2009); and *Law, Science and the Continental Shelf: The Russian Federation and the Promise of Arctic Cooperation*, 24 Am. U. International Law Review 251 (2010). The Arctic offshore regulatory project described above led to a

commission from the Inuit Circumpolar Council to prepare similar papers for Greenland and the Russian Federation. All of the papers are available as Vermont Law School, Institute for Energy and the Environment, White Papers Nos. 1-5, B. Baker et al., Implementing the Arctic Offshore Oil and Gas Guidelines in the United States and Canada (Nos. 1-4, 2010), and in Greenland and the Russian Federation (No. 5, 2011).

Senior Research Fellow for Nuclear Analysis, Peter Bradford, is a former member of the U.S. Nuclear Regulatory Commission from 1977 until 1982, and former chair of the New York Public Service Commission from 1987 until 1995 and the Maine Public Utilities Commission from 1982 until 1987. Professor Bradford teaches “Nuclear Power and Public Policy” and “The Law of Electric Utility Restructuring” in the summer sessions. He was a visiting lecturer in energy policy and environmental protection at the Yale School of Forestry and Environmental Studies. He is a graduate of Yale University and Yale Law School.

He was a member of the 2007 Keystone Center fact finding collaboration on nuclear power and climate change and the 2006 National Academy of Sciences panel evaluating the alternatives to continued operation of New York’s Indian Point nuclear plants. He served on the European Bank for Reconstruction and Development panel advising how best to replace the remaining Chernobyl nuclear plants in Ukraine, a panel on the opening of the Mochovce nuclear power plant in Slovakia. He has advised the Vermont Legislature on issues relating to spent fuel storage at Vermont Yankee and the Town of Wiscasset, Maine, on tax issues related to the storage of spent nuclear fuel near the site of the former Maine Yankee nuclear power plant. He has advised on energy, telecommunications and water utility restructuring issues in China, Armenia, Azerbaijan, Georgia, India, Indonesia, Mongolia, Canada, Russia, Samoa, South Africa, Trinidad & Tobago and the eastern Caribbean states.

He recently chaired Vermont’s Public Oversight Panel on the Reliability of the Vermont Yankee nuclear power plant and was just named by Governor Shumlin to serve as one of Vermont’s two representatives on the Texas-Vermont Low Level Waste Disposal Compact Commission. Professor Bradford is a member of the China Sustainable Energy Policy Council, a joint project of the Packard, Hewlett and Energy Foundations.

Professor Bradford, a prominent expert witness and advisor on utility regulation, nuclear power and energy policy, is contacted and quoted regularly by the media. He will continue to speak, write and testify on the future of nuclear power for the coming year and advise on energy issues in the U.S. and abroad.

Senior Research Fellow for Economic Analysis, Mark Cooper, is engaged in projects at the Institute that include ongoing analysis of the economics of electricity resources in a carbon-constrained environment. His past work has focused on the projection of the cost and assessment of the risk of construction of nuclear reactors, including historic patterns of



cost escalation in the U.S. and France, as well as on the comparative cost of alternative resources and the tendency for nuclear reactor construction to crowd out alternatives.

Cooper's ongoing research places traditional "levelized" cost estimation into a framework that will enable public utility commission to develop least cost plans that can cope with the complexity of the current resource-planning environment. Least-cost planning is the cornerstone of consumer protection and utility ratemaking, but the first decade of the 21st century has been a challenge for regulators trying to find the appropriate mix of resources to meet electricity needs. Climate policy has gyrated, the cost of gas has fluctuated wildly, and the nuclear renaissance proved to be a fiction, based on low-cost projections that have increased four-fold in about a decade. As a result, today a least cost plan must hedge against risk, buy time to reduce uncertainty, and be insulated against the unknown. The ultimate goal is to develop practical analytic tools for regulators to evaluate options and develop viable strategies for combining resources that will yield reliable, affordable electricity to meet electricity needs, whether or not a carbon constraining policy is adopted.

Smart Grid Project Leader, Kevin Jones, has been at the center of the transformation of the electric power industry in the northeast as the director of power market policy for Long Island Power Authority (LIPA) and the former director of energy policy for the City of New York. Kevin joined the Institute staff after the \$450,000 award from the Department of Energy to work on a two year project "Creating the Legal and Regulatory Framework for a Smart Electric Grid". Kevin coordinates the work of Smart Grid Fellow Rebecca Wigg and several researchers.

Senior Fellow for Energy Security and Justice, Benjamin Sovacool, joined the Institute in Fall 2011. Prior to VLS, he was an Assistant Professor and Research Fellow at the National University of Singapore. Since Benjamin arrived he has been cultivating the Institute's scholarship on energy access, ethics, and energy security. His work primarily investigates the different scales, sectors, technologies, countries, and synergies involved with securing energy fuels and deploying technologies (on the supply side) and distributing energy services and influencing behavior (on the demand side). His research explores how energy justice and security challenges differ by scale, sector, and country, with a special focus on the Asia-Pacific. Part of this agenda includes how energy security has synergies with poverty and the millennium development goals, climate change mitigation, and climate change adaptation and resilience. He leads the Institute's newly created Energy Security and Justice Program and he collaborates with Christopher Cooper and a five person research team.

Our Research Projects

ENERGY PRODUCTION

Carbon Capture and Sequestration

The CCS Project is a collaboration with Carnegie Mellon University to develop a regulatory and policy framework for geologic Carbon Capture and Sequestration (CCS). In October, 2010 the team held a workshop in Washington, DC, where nearly forty stakeholders discussed a draft federal statute developed by the project team. Along with the statute, the team is writing a comprehensive CCS book to be published by Resources for the Future. For more on the project, visit www.CCSReg.org.

Coal Financing

The Institute is producing a white paper on the role of Export Credit Agencies (ECAs) in financing coal-fired power plants around the globe. The trend in global coal use over the past ten years has been away from OECD nations and towards the developing world. Rapidly growing economies in India, South East Asia, and China are powered in significant part by coal-generated electricity, and much of the financing for these projects comes from ECAs based in developed countries like Japan, the U.S., Canada, and Germany. Governments that promote sustainability and green energy domestically are at the same time, through their Ministries of Trade, investing billions of dollars overseas in developing carbon-intensive energy infrastructures. The Institute study explores this inconsistency in policy goals and outcomes through case studies of a number of the larger ECAs.

Electricity Cooperatives

This project promotes the benefits of electric coops by producing a series of white papers designed to establish the Institute as a center of legal research and analysis in the field of rural electric coops and public power.

Ethanol

The Institute partnered with Food & Water Watch and Network for New Energy Choices to publish "Rush to Ethanol: Not All Biofuels are Created Equal." The report explained that ethanol alone will not solve our energy problems. Only as a part of a larger energy plan is ethanol useful for the transition to a



more sustainable energy system. A follow-up report on ethanol subsidies will be published in 2011. The new report analyses the limits of corn ethanol, the effect of ethanol subsidies on small producers as distinct from commercial producers, and the alternatives to corn ethanol. The report concludes with policy recommendations to encourage cellulosic and algae biofuels. With the EPA's recent increase of the percentage of ethanol in blended gasoline, ethanol remains a fixture in our transportation policy and the 2011 report will bring fresh insight to the policy debate.

Group Net Metering

In 2009, the Vermont legislature established rules to allow neighboring electric customers to construct and operate a community-scale renewable power project. As a group feeds electricity into the grid, their utility bills are offset by these credits. Group net metering helps minimize interconnection agreements, brings economies-of-scale to project pricing, and allows individuals who do not have optimum sites to participate in the burgeoning movement toward small-scale generation. To promote these projects, Vermont's Clean Energy Development Fund commissioned a technical, legal, and operational blueprint for communities and other groups seeking to launch net metering projects. The Institute was a key part of the team that developed this document, which was submitted to the Clean Energy Development Fund and Vermont Public Service Board at the end of 2010. The team is also developing a conceptual plan for two solar electricity projects, one at 100 kW and the other at 250 kW. The final document will include legal and structural options that will be effective for Vermont communities. It will address issues ranging from technological choices to participant contracts and will be available after the Vermont Public Service Board has approved it.

Reliability and Cybersecurity

The electric grid reliability research group evaluates standards promulgated by the North American Electric Reliability Corporation (NERC). Under federal authority, the research group has consulted with industry and has provided advice regarding stakeholder participation in the process for developing standards. Furthermore, the research group worked with industry to comment on proposed vegetation management standards and continues to track new developments.



Following the Institute's paper on the enforcement trends of NERC reliability standards, which was published in *Public Utilities Fortnightly* last year, research continues on the cybersecurity aspects of the electric grid. We examine the adequacy of the NERC cybersecurity standards and its potential as a model for other critical infrastructure sectors. In addition, we evaluate how cybersecurity protection measures might trigger international laws, such as the international law of armed conflict. Based on

this research, the U.S. Military academy at West Point invited Global Energy Fellow Zhen Zhang to present at its annual critical infrastructure symposium in April of 2011.

RENEWEELEC

The Institute is working as a subcontractor with Carnegie Mellon University under a grant from the Doris Duke Foundation to develop policies to integrate renewable electricity resources into the grid in a cost-effective, reliable, environmentally benign, and socially equitable manner. The project team will be producing a series of white papers over the course of the three-year project. In the Fall of 2010, the team produced two issue papers: the first focusing on the current decommissioning rules, regulations and funds for renewable energy facilities and the second serving as a resource paper documenting state renewable portfolio standards. The team will continue to research and write on imperative legal and regulatory issues concerning the implementation of the large-scale adoption of renewable resources into the grid.

Resource Extraction

The resource extraction team researches how the extraction of natural resources (predominantly oil and gas) impacts the environment. Specifically, the team has examined several existing reports pertaining to post-Deepwater Horizon analyses of offshore oil and gas extraction and Arctic offshore drilling. We are examining these reports in an effort to recommend potential areas of harmonization between U.S. and Canadian regulators. In addition, the team is contributing to the oil and gas section of the 2011-2013 Phase II of the Arctic Ocean Review Project.

Transparency in Wholesale Power

Much of the nation's electricity reaches consumers after having been purchased by their distribution utility from a wholesale supplier. Thus, wholesale power contracts are among the most significant components of retail electric rates. Though they are subject to review under the Federal Power Act, and are germane to the prudence review to which state regulators subject electric utilities, most regulators routinely treat such wholesale contracts (or at least the key terms of such contracts, including price) as confidential under applicable law governing access to government records. Drawing on the expertise of Associate Director Donald Kreis as a former journalist, a former utility commission general counsel with responsibility for compliance with public records laws, and a current teacher of administrative law (including the federal Freedom of Information Act and its state-law analogs), this project is an effort to promote public disclosure as the best method for eliminating competitive advantage arising out of information asymmetry in the context of wholesale power transactions.

ENERGY-EFFICIENCY

Agricultural Energy Outreach

In the 2010-2011 academic year, the Institute's third year of a multiyear engagement designed to promote energy efficient-farms, eight research associates attended fourteen agricultural conferences of varying size and composition in eight different states. At eight of these conferences, research associates presented a session on "Profit Out of Thin Air: How Energy Efficiency and Renewables Can Improve Your Bottom Line... and the Health of the Environment." This session provided participants with practical strategies for decreasing energy consumption on the farm so farmers can increase their profits while decreasing their vulnerability to fluctuating energy prices.

Most recently, the project has continued to promote energy self-reliance at farms through agricultural energy-efficiency and renewable energy generation. The Ag Team will publish a "Resource Guide for Financing On-Farm Energy Investments" and present this information at regional agriculture conferences and trade shows throughout the nation. The Resource Guide focuses on the availability of federal and state assistance for various efficiency and renewable projects. Past publications include "The Farmer's Handbook for Energy Self-Reliance: A Guide to Using Energy Efficiency, Biomass and Renewable Energy on the Farm," and "A Farmer's Guide to Energy Self-Reliance," which contain detailed information on various efficiency and renewable projects, and the investments each type of project requires. The Ag team additionally maintains a website dedicated to advancing sustainable agricultural energy practices: <http://www.agenergysolutions.org/>.



Energy- Efficiency Workforce Training

Working with the Vermont Energy Investment Corporation (VEIC), researchers identified significant gaps in the professional development opportunities for energy efficiency program managers and designers. One outcome of this project is a paper proposing the creation of a National Energy Efficiency Academy to develop a training curriculum targeted toward early and mid-career energy efficiency program managers and designers. Building on the concentration of energy efficiency expertise in Vermont, the curriculum will be taught by leading experts in the field and will offer participants the opportunity to gain critical energy efficiency skills not available through other training or educational opportunities.



Financing Energy Efficiency

As part of a multiphase project designed to support the Vermont General Assembly goal to make substantial improvements in the energy efficiency of approximately 80,000 Vermont homes by 2020, phase one of this research explores issues related to financing residential upgrades. Through interviews with Vermont lenders and information gleaned from a lender survey and independent research, this project explores key impediments to lending for this purpose and recommends means to overcome these barriers. The project also characterizes the energy characteristics of Vermont homes as well as homeowner's credit characteristics. A report of project findings will be used to support policy development as well as collaboration with other organizations involved in energy efficiency work in Vermont.

SMART GRID

Legal and Regulatory Framework for a Smart Electric Grid

Developing a Smart Electric Grid is the most pressing topic within the electric power industry and the Institute is contributing to the dialogue. This project is largely funded by a federal appropriation administered by the U.S. Department of Energy and is supplemented by a contribution from Vermont Law School. The technological innovation at the center of this transformation has required the smart electric grid to become a partnership of electric utilities and technology companies (such as GE's Digital Energy business). Not surprisingly, the introduction of this technology has presented new legal, policy, and regulatory challenges for state and federal utility regulators. The federal government has added additional momentum to this technological evolution by awarding \$3.4 billion in smart grid investment grants to utilities and other entities as part of the American Recovery and Reinvestment Act.

The first phase of the Institute's project involves creation of case studies about smart grid project development and implementation in order to develop best practices and lessons learned with the goal to inform the further development of the legal and regulatory framework for a smart electric grid both in the U.S. and internationally. While conducting its case study research the Institute research team is also exploring critical legal and policy issues through white paper development in the areas of:

- advanced metering and technology,
- grid reliability and security,
- distributed generation,
- energy efficiency and demand response,
- integration of electric vehicles, and
- customer data and privacy.



The institute is giving particular attention to relevant legal issues, such as individual privacy matters, including the protection of confidential customer information, which will grow in volume and commercial interest with the deployment of new technology.

Comparative E.U. and U.S. Smart Grid Developments

One of the Institute's interests is smart grid development in the European Union (E.U.). Project members monitor E.U. smart grid developments. This work resulted in a comparative E.U./U.S. smart grid development paper published by *Public Utilities Fortnights* in January and February of 2011.

CROSS CUTTING

Alternative Dispute Resolution (ADR) And Energy

Although there are numerous benefits to wind energy, siting of wind facilities can be controversial. There is an opportunity for the federal government to promote a consensus-building process at the state level for siting renewable energy projects. In collaboration with Professor Sean Nolan, this project is publishing a law review article about this topic, which will discuss topics including NIMBY issues and deliberative polling/other process to ensure citizen involvement in siting decisions during planning stage of wind energy project siting.

Carnegie Mellon University Decision Making

The National Science Foundation is funding research at Carnegie Mellon University (CMU) to explore approaches to decision making that can be applied to climate-change related challenges. Working with CMU, the Institute provides a legal perspective on improving the understanding of decision-making, both as a matter of general methodology and with specific reference to climate change. As part of this project, the Institute has become a component of the Center on Climate Decision Making (the Center), which seeks to analyze decision-making methodologies and improve the understanding of decision-making theory among professionals, students, and the general population. Over the course of the next five years, the Center will host various workshops and delve deeply into various approaches to decision-making. With the goal of developing tools to support decision makers who face climate-related challenges, the Institute will analyze and report on topics such as: intellectual property issues concerning geo-engineering, liability and legal risks of hurricane modification, the history of legal decision-making and legal tools developed to address conflicts that must be resolved in the face of incomplete information and limited time, and legal standards in prudence reviews for utility rate-making.

Energy Security & Justice Program

The Energy Security and Justice Program investigates how to provide ethical access to energy services and minimize the injustice of current patterns of energy production and use. It explores how to equitably provide available, affordable, reliable, efficient, environmentally benign,

proactively governed and socially acceptable energy services to households and consumers. One track of the program focuses on lack of access to electricity and reliance on traditional biomass fuels for cooking in the developing world. Another track analyzes the moral implications of existing energy policies and proposals in the United States.

Trade Associations

The Institute partnered with David Goldstein, Co-Director of Natural Resources Defense Council Energy Program, on an article that explores the role of trade associations in law and policy development, which uses examples from energy efficiency policy. The Institute examined how anti-trust laws attempts to prevent anti-competitive tendencies of trade associations. By comparing anti-trust cases with experiences in energy policy development, we examined the boundaries of the law and offer future investigation paths.

What is justice, what are our “decision rules,” and what conceptual frameworks do the disciplines of philosophy and ethics offer policymakers for attaining just energy scenarios?

Teaching Energy with an Environmental Twist

Energy issues are leading the path for environmental issues. However, there is a growing need and unfortunate gap in teaching energy law to new environmental lawyers. Thus, the Institute has produced a 4-page guide to the importance of teaching energy, developed based on a survey of the 198 ABA-accredited law schools. It is also organizing a 3rd annual "Teaching Energy with an Environmental Awareness" workshop; and, preparing a monograph for publication. Finally, this project is supporting University of Chile's effort to prioritize energy law.

Transportation Planning

This team is exploring ways to support reduction of greenhouse gas emissions from the transportation sector in Vermont, the Northeast region of the U.S., and in Asia. The Institute is also exploring collaboration with Berkley law and the Center for Resource Efficient Communities to design and regulate a major city street with an eye toward the same goal.

INTERNATIONAL

Arctic: Offshore Oil and Gas Development

The Inuit Circumpolar Council commissioned the Institute to produce white papers for the 2011 Inuit Leaders Summit, covering the regulatory framework for arctic offshore oil and gas development in Greenland and the Russian Federation. The project builds on a similar Institute study of Canadian and U.S. arctic offshore regulations published in summer 2010. Both projects evaluate the respective national regulatory frameworks against the “Arctic Offshore Oil and Gas Guidelines” endorsed by the Arctic Council in 2009 and created by its working group on Protection of the Marine Environment. The Arctic Council is a high level intergovernmental forum established in 1996 "to provide a means for promoting cooperation, coordination and interaction among the Arctic States, with the involvement of the Arctic indigenous communities and other Arctic inhabitants on common arctic issues. Professor Baker presented the white papers at the Inuit Leaders Summit on February 23, 2011.

The Institute not only maximizes its impact on international energy policy, but uses the available opportunities for educational exchange.

China

Among other research projects, the Institute’s China work includes a monthly energy newsletter and visits to China. The China Energy Monthly covers technology and business developments, government actions, and China’s activities abroad. Since July 2009 the newsletters have been posted on the Institute’s blog.

In addition, Michael Dworkin works with the US-China Partnership for Environmental Law at VLS to facilitate the exchange of ideas regarding energy laws, regulations and policy. In December, 2009, Professor Dworkin presented at the State Energy Regulatory Commission, Sun Yat-Sen University and the Environmental Law Institute of Zhongnan University of Finance, Politics and Law. Professor Dworkin discussed integrated resources management, smart grid, and analyzed whether President Obama’s energy related campaign promises were implemented. The face-to-face interactions give the Institute a concrete presence in China and deepen our long-term relationship with Chinese institutions. Since 2010, the Institute has been working with the US-China Partnership to develop a two-week energy law and policy survey course and research exchange opportunities.

Global Energy Justice Book Project

Energy sustainability and access is one of the central justice issues of our time, with profound implications for notions of distributive and intergenerational justice. In this path-breaking discussion, a global team of experts in law, regulation, and policy has come together to identify the risks and dangers in our current energy trajectory, as well as the principles and opportunities by which that path may be altered. The book will identify key challenges and opportunities for policy makers to develop policy instruments that accord with expansive notions of justice, providing an adequate and effective framework to make ethical, responsible decisions about energy choices, demand management, and energy infrastructure. Energy sustainability is posited as a "trilemma" wherein economic, security, and environmental considerations must be reconciled to each other - and across jurisdictions. The book will demonstrate that sustainable development principles, notions of justice and legal pluralism can enrich the conceptual frameworks to guide policy makers through the mazelike considerations that arise from the energy trilemma.

Appendix

IEE Publications (ordered by date)

Vermont's Energy Future: A Conceptual Map of Vermont's Energy Goals and Decision Makers, prepared for the Vermont Department of Public Service. September 2011.

Financing Residential Energy Efficiency in Vermont. Colin Hagan, Rebecca Wigg, Marianne Tyrrell. August 2011.

Crystal Eth: America's Crippling Addiction to Taxpayer-Financed Ethanol. Institute for Energy and the Environment with Food and Water Watch. 2011.

"Implementing the Arctic Offshore Oil and Gas Guidelines" White Paper Series: Introduction Letter and Permitting Overview for the United States and Canada, White Paper No. 1: Operating Practices in the United States and Canada, White Paper No. 2: Environmental Monitoring in the United States and Canada, White Paper No.3: Northern Communities—Participation in Decision Making in the United States and Canada, White Paper No. 4: Decommissioning and Site Clearance in the United States and Canada, White Paper No. 5: Implementing the Arctic Offshore Oil and Gas Guidelines in Greenland and the Russian Federation. Institute for Energy and the Environment. 2011.

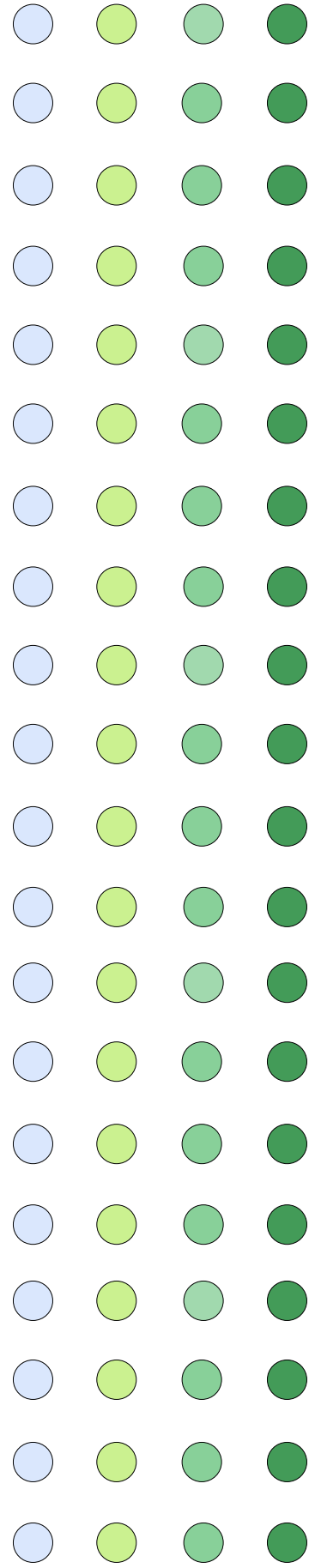
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IEE Presentations

Agriculture Conferences attended in 2010-2011 Academic Year

Northeast Organic Farming Association of Massachusetts Annual Summer Conference

NRCS 75th Anniversary Celebration

National Small Farm Trade Show and Conference

American Agri-Women National Conference

The Tilth Producers Annual Conference

Northeast Organic Farming Association of Massachusetts Annual Winter Conference

Southern Sustainable Agriculture Working Group Conference and Trade Show

Annual Midwest Value Added Agriculture Conference

Pennsylvania Association of Organic Agriculture Annual Farming for the Future Conference

Agricultural Future of America Webinars (2)

Midwest Organic and Sustainable Education Service (MOSES): 22nd Annual Conference

Northeast Organic Farming Association of Vermont Annual Winter Conference

“Flavors of the Valley” presented by the Farm & Food Program of Vital Communities, White River Junction, Vermont

Presentations by Staff and Researchers

Rethinking the Importance of National Law to Resource Development in the Arctic: Canadian and US Examples, Betsy Baker, Geopolitical and Legal Aspects of Canada's and Europe's Northern Dimensions, hosted by the Canadian Circumpolar Institute (CCI), University of Alberta, Canada, and the Thule Institute, University of Oulu, Finland, joined by Iceland's Stefansson Arctic Institute and the Northern Research Forum, May 27, 2010.

Canadian-U.S. Cooperation in the Beaufort Sea, Betsy Baker, International Bar Association, Section on Energy, Environment, Natural Resources and Infrastructure Law (SEERIL), Toronto, Ontario, Canada, on April 26, 2010.

Green Governance: Energy Policy and Governance for Sustainable Societies, Program on the Global Environment, available at: <http://pge.chicago.edu/greengovernance>, University of Chicago, Chicago IL, April 24, 2010.

Emerging Issues in Transmission Reliability, the Role of LIDAR in Compliance, T&D World Webinar, March 17, 2010.

The Energy Trilemma: Environment, Costs, and Reliability, Zhen Zhang, Paul Foley, Javier Gago and Andres Pirozzoli, Eugene OR, February 27, 2010.

Carbon Capture and Sequestration: Is the Solution Beneath Us? Joint Session: Committees on Electricity and on Energy Resources and the Environment Annual Meeting of the National Association of Regulatory Utility Commissioners, Washington, D.C., February 16, 2010.

The Water/Energy Shortage: Crisis or Opportunity? 8th Annual Business & Society Conference Tuck School of Business at Dartmouth Hanover, NH, February 12, 2010.

Reducing Stress on the Rural Grid, American Council for an Energy Efficient Economy—Forum on Energy Efficiency in Agriculture, Johnathan Hladik, Matthew Stern, David Contrada, Danielle Changala and Michael Dworkin, Madison WI, February 7-10, 2010.

The Rural Advantage/Healthy Farms Conference, Johnathan Hladik, Lincoln NE, February 5-6, 2010.

Pennsylvania Association of Organic Agriculture Annual Farming for the Future Conference, Louisa Yanes, State College PA, February 4-6, 2010.

Northeast Organic Farming Association of New York 28th Annual Farming and Gardening Conference, Paul Foley and Matt Stern, Saratoga Springs NY, January 22-24, 2010.

Northeast Organic Farming Association of Massachusetts Annual Winter Conference, David Contrada and Louisa Yanes, Worcester MA, January 16, 2010.

The CCSReg Project: Liability Legislation and Recommendations Briefing for 40 Congressional Staff, at request of Senator Casey, Dirksen Senate Office Building Washington, DC, January 7, 2010.

Copenhagen, Obama's Energy Goals, and Carbon Options for the US and China, Environmental Law Institute of Zhongnan University of Finance, Politics and Law, Wuhan City, Hubei Province, China, December 14, 2009.

Energy Policy In the Obama Administration: Implications for Carbon Constraint and China Law School of Sun Yat Sen University Guangzhou City, Guangdong Province, China, December 11, 2009.

Power Market Reform, Resource Planning, Smart Grids and Carbon Emission Controls State Electricity Regulatory Commission of China: Senior Managers' Briefing, Beijing Municipal District, China, December 8, 2009.

Economics of Alternative Energy Sources and Globalization: The Road Ahead, Johnathan Hladik and Louisa Yanes, Orlando FL, November 15-17, 2009.

The Tilth Producers Annual Conference, Lisa Champion, Yakima OR, November 13-15, 2010.

Decision-making Under Uncertain Conditions: Climate Change Applications National Science Foundation Evaluation of Carnegie-Mellon Decision Analysis Proposal Engineering & Public Policy Department, Carnegie-Mellon University, Pittsburgh, Pennsylvania, November 8-10, 2009.

17th National Small Farm Trade Show and Conference, Johnathan Hladik, Columbia MO, November 5-7, 2009.

Security Tensions, Energy Resources, and Demand-Side Management, MacArthur Foundation and National University of Singapore, Bukit Timah Campus, Singapore, November 14-15, 2009.

Annual Award Ceremony Presentation: Chairman Jon Wellinghoff of the FERC Moderator of Discussion Panel District of Columbia Chapter of the Vermont Law School Alumni Association, Washington D.C., November 5, 2009.

Energy Options for A Carbon Constrained World (keynote) 4th Vermont "Greening Up Your Bottom Line" Conference Vermont Businesses for the Environment & Vermont Environmental Consortium, Stowe Mountain Lodge, Stowe, Vermont, October 21, 2009.

The CCS Reg Project: Options and Prospects for Carbon Capture and Sequestration U.S. Environmental Protection Agency: Climate Change and UIC Division Staff, Washington, D.C., October 19, 2009.

The CCS Reg Project: Options and Prospects for Carbon Capture and Sequestration Congressional Research Service, Washington, D.C., October 19, 2009.

Peer Review of Energy Analysis Division of Lawrence Berkeley National Laboratory University of California at Berkeley, Lawrence Berkeley National Laboratory, Berkeley, California, October 4-6, 2009.

Energy Policy for A Carbon Constrained World: An Introduction To Our Trilemma Electric Power Research Institute: Lecture Series for Research Staff, Palo Alto, California, August 20, 2009

The Nuts and Bolts of Teaching the Law of Energy and the Environment (keynote), Forum on Teaching Energy Law with an Environmental Awareness, Vermont Law School, South Royalton, Vermont, July 17-19, 2009.

Teaching Energy and the Environment, Rocky Mountain Mineral Law Foundation Forum for Environmental Law Professors, Chico Hot Springs, Montana, May 2009.

Smart Grids: What Regulators Think They Are and Can Be—And Why We Should Care, Carnegie Mellon University: Tepper Business School & Carnegie Electricity Industry Center Pittsburgh, Pennsylvania, March 10-11, 2009.

Workshops on Commercial and Residential Energy Efficiency Potentials MIT Energy Innovation Project (Doris Duke Charitable Foundation Energy Project), Cambridge, Massachusetts, March 5-6, 2009.

Decommissioning Costs for the Vermont Yankee Nuclear Power Plant Testimony before the House Committee on Energy and Natural Resources General Assembly of the State of Vermont, Statehouse Building, Montpelier, Vermont, February 18, 2009.

Climate Change and Energy Policy, Environmental Capstone Colloquium University of Florida: Levin College of Law Gainesville, Florida, February 12, 2009.

Lessons for Vermont in a Carbon Constrained World, Champlain Leadership Conference: Energy Forum, IBM Plant Facilities, Essex Junction Vermont, February 10, 2009.

Environmental Developments in Energy Law, ALI/ABA Forum on Environmental Law American Law Institute/American Bar Association, Washington, D.C., February 5, 2009.

Harvesting Clean Energy, Katlyn Bush, Billings MT, January 25, 2009.

Sustaining Family Farms Conference, Jack Sautter, Chatanooga TN, January 24, 2009.

Midwest Value Added Agriculture Conference, Johnathan Hladik, Rochester NY, January 22, 2009.

The CCS Project: Briefing on the Interim Report, Doris Duke Charitable Foundation Grantee's Meeting on Climate Strategies Cambridge, Massachusetts, January 16, 2009.

A Third Renaissance for American Capitalism Opening Presentation for: Is Capitalism Sustainable? The Business & Society Conference of Tuck School of Business, Thayer School of Engineering and Vermont Law School" Dartmouth College, Hanover, New Hampshire, January 15, 2009.

The CCSReg Project, Briefing on interim report for Capitol press and Congressional staffers Washington, DC January 9, 2009.

Tasks for Lawyers as China and the US Face Energy Dreams & Environmental Limits Law School of South China, Normal University, Guangzhou, Guangdong, China, December 12, 2008.

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Energy Justice: A Global Conversation About Our Energy Trilemma, Yale University: Global Energy Fellows Program, New Haven Connecticut, November 24, 2008.

Northwest Organic Growers Conference, Sara Kelly, Bellingham WA, November 20, 2008.

Background and Context: Vermont Yankee Nuclear Plant Re-Licensing Decision Joint Session of Vermont House and Senate, Montpelier Vermont, November 19, 2008.

Blending Law, Technology and Finance to Meet Our Energy Challenge Dartmouth College: Thayer, Tuck, VLS Student Collaborative for Sustainability, Hanover NH, November 19, 2008.

Acceptance Speech: Kilmarx Award for Good Government, Clean Energy and Environment National Association of Utility Commissioners: Energy Resources and the Environment, New Orleans Louisiana, November 17, 2008.

Building a Legal Regime for the Sequestration of Carbon Energy Bar Association Semi-Annual Meeting, Washington D.C., November 14, 2008.

Deep Geologic Sequestration of Carbon: The CCS Reg Project Electric Power Research Institute: Board of Director's Briefing (with Jay Apt), Dallas, Texas, November 12, 2008.

Nebraska Wind Energy Conference, Jack Sautter, Kearney NE, November 11, 2008.

Northeast Resource Conservation and Development Conference, Sara Kelley, Mystic CT, October 23, 2008.

Legal Complexity Simplified: Elements, Traits, and Questions About How Americans Set Standards and Resolve Disputes, "Emergeneering" 2008 Conference on Holistic Solutions for a Complex World University of Vermont College of Engineering and Mathematical Science, Burlington, Vermont, October 15, 2008.

An Environmental Agenda for the Next Administration Emerging Energies Panel, Environmental Law and Policy Conference. University of Michigan School of Law Ann Arbor, Michigan, September 25, 2008.

Mid-Atlantic Resource Conservation and Development Conference, Jack Sautter, Clinton NJ, September 22, 2008.

Demand Response as a Baseload Resource: The Role of Energy Efficiency, EnerNOC Forum Boston, Massachusetts, September 21-22, 2008.

National Council on Rural Development, Michael Dworkin, Montpelier VT, September 11, 2008.

Efficiency and Renewable Energy: The Rural Development Potential Partnership for Rural America Annual Meeting, Montpelier, Vermont, September 9, 2008.

Coming 'Round The Bend: Under- Recognized Risks of Investing in Traditional Coal-Fired Generating Plants National Association of Regulatory Utility Commissioners, Committee on Energy Resources and the Environment Portland, Oregon, July 21, 2008.

Moderator, 2008 Summer Energy Forum, Vermont Law School Institute for Energy and the Environment, South Royalton, Vermont, July 18, 2008.

Speech and Seminar: Energy Dreams, Environmental Constraints, for China, the US and Our World, Chinese University of Hong Kong School of Law, Sha Tin, NT, Hong Kong, China, June 20, 2008.

Energy, Environment and Efficiency for China, the US and Our World, Juris Master Program of Sun Yat-sen University School of Law, Guangzhou City, Guangdong Province, China, June 17, 2008.

Moderator, Panel on Private Practice & Environmental Law Forum for Practitioners of Environmental Law: Sun Yat-sen University School of Law Guangzhou City, Guangdong Province, China, June 16, 2008.

Moderator, Panel on Substantive Elements of Environmental Law Curriculum Convocation of All Provincial Environmental Law Scholars, Shiling Town, Guangzhou City, Guangdong Province, China, June 14, 2008.

Speech and Seminar: Regulatory Structure and Power Market Reform Senior Policy Analysts Briefing Day State Electric Regulatory Commission of China (SERC), Beijing, China, June 11, 2008.

Energy & the Environment: Organizing Our Agencies, Teaching Our Students Forum on Energy Institutional Reform and Development of Energy Law Curriculum, Tsinghua University: Center for Environmental, Natural Resources & Energy Law, Beijing, China, June 10, 2008.

Vermont Edition: Vermont's Future Electrical Needs Vermont Public Radio, with Jane Lindholm, May 21, 2008.

A Desperate Need; A "Tough Love" Pitch; & Some Next Steps: Solar Power & Our Energy Trilemma American Solar Energy Society—Opening Plenary Session, San Diego California, May 5, 2008.

Curriculum Review Deliberations, Board of Advisors, University of Vermont School of Engineering and Computer Sciences, Burlington, Vermont, April 29-30, 2008.

Looking 'Round The Bend Ahead: Under- Recognized Risks of Investments in Traditional Coal Fired Generation New York Society of Security Analysts, New York, New York, February 26, 2008.

Desperate Buyers in a Sellers Market: Lessons For Our Carbon Constrained World Leadership Champlain Annual Energy Seminar, IBM Semi-conductor Production Facility, Essex Junction, Vermont, February 12, 2008.

Chasing Carbon From Academia, Midd-Shift Carbon Neutral Campus Climate Committee, Middlebury College, Middlebury, Vermont, December 13, 2007.

Global Energy Justice Drafting Sessions McGill University Faculty of Law, Montreal, Quebec, Canada, December 8-9, 2007.

Business Structures and Contract Incentives for an Energy-Efficiency Utility, Energy-Efficiency Study Tour of 17 Chinese governmental officials, Vermont Law School, South Royalton, Vermont, December 7, 2007.

Merging Environmental and Energy Concerns in Vermont's Planning and Siting Laws Practitioners' Working Group (with Kinvin Wroth, Peg Elmer, LUI and IEE), Vermont Law School, South Royalton, Vermont, November 28, 2007.

Education in the New Environmental Economy Vermont Environmental Consortium, Norwich University, Northfield, Vermont, November 3, 2007.

Research Agenda Authorizations, Board of Directors of the Electric Power Research Institute Scottsdale, Arizona, November 1, 2007.

Research Proposal Reviews, Research Advisory Council of the Electric Power Research Institute Scottsdale, Arizona, October 31, 2007.

The Current State of Energy Services, "Consumer Energy Symposium," National Association of Utility Consumer Advocates Boulder, Colorado, October 29-30, 2007.

Curriculum Review, Board of Advisors, University of Vermont School of Engineering and Computer Sciences Burlington, Vermont, October 26, 2007.

Annual Research Agenda Review, Carnegie Mellon's Electric Industry Research Center Pittsburgh, PA, October 17-18, 2007.

Energy, Efficiency and our Environment for America, China, and the World State Environmental Protection Agency of China: Environmental Study Tour, Vermont Law School/US AID Project South Royalton, Vermont, October 12, 2007.

Global Energy Justice, Forum for International Jurists Addressing Ethical Energy for a Lasting World, Institute for Energy and the Environment at Vermont Law School, South Royalton, Vermont, September 21, 2007.

Board of Directors' Strategic Planning Day Washington Electric Cooperative, Seyon Ranch, Groton Vermont, September 18, 2007.

State Electric Regulatory Commission of China Peer-to-Peer Regulatory Conference Federal Energy Regulatory Commission, Washington D.C., August 24, 2007.

Participation without formal presentation, EPRI Board of Directors Meeting, Marina del Ray CA, August 5-7, 2007.

Participation without formal presentation, National Association of Regulatory Utility Commissioners Committee on Energy Resources and the Environment, New York, NY, July 16-18, 2007.

Energy Policy: the World's Most Important Environmental Issue Green Mountain Global Forum, Waitsfield Vermont, June 19, 2007.

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From the Horizon to the Neighborhood: Futures for Vermont in a Carbon Constrained World The Nature Conservancy of Vermont – 2007 Annual Meeting of the Board, South Royalton, Vermont, April 19, 2007.

Energy Efficiency: Business Structures for Solving Part of Our Climate Change Problem, Yale University: Center for Business & the Environment at Yale, the Climate Change and Industrial Environmental Management and Energy Student Interest Groups and Energy Club, Yale School of Management, New Haven, Connecticut, April 9, 2007.

Energy Efficiency in America's Electricity System, Yale University: School of Forestry and Environmental Studies, New Haven, Connecticut, April 9, 2007.

Chasing Carbon and Pollutants through a Life in the Law (Remarks and Discussion), Yale University: Environmental Law Society of Yale Law School, New Haven Connecticut, April 9, 2007.

Energy, Environment, and Law for Our World, Our Nations and Law Students, Sun Yat-sen University Faculty of Law Guangzhou, Guangdong, China, March 22, 2007.

Vermont's Energy Trilemma in a Carbon- Constrained World Vermont Senate Finance Committee, February 20, 2007.

Energy Regulation & the Environment: An Introduction to Our Trilemma, University of Vermont – School of Engineering & Mathematical Sciences, Burlington, Vermont, February 16, 2007.

Once A Distant Thunder, Now An Issue Every Day: What Can Vermonters Do When Carbon Drives Us All? Opening Challenge Speech to Leadership- Champlain Annual Conference South Burlington, Vermont, February 13, 2007.

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Energy, Environment, and Law for Our World, Our Nation and Our Selves, Governor's Institute of Vermont Annual Symposium Goddard College, Plainfield, Vermont, February 3, 2007.

Energy, Environment, and Law for Our World, Our Nation and Law Students Middlebury College: Pre-Law and Environmental Societies, Middlebury, Vermont, January 25, 2007.

Green Mountains, Green Valleys & A Green New Deal for Vermont, Shems Dunkiel Kassel & Saunders 2007 Client Breakfast Series, Burlington, Vermont, January 25, 2007.

Green Mountains, Green Valleys & A Green New Deal for Vermont Joint Session of Vermont Senate Committees on Agriculture, Economic Development, Transportation, Energy and Natural Resources, Montpelier, Vermont, January 24, 2007.

A Needy Buyer in a Seller's Market Can Vermont Do Better in a World of High Priced, Carbon Constrained, Power? Vermont House Committee on Energy and Natural Resources Montpelier, Vermont, January 9, 2007.

Energy Efficiency: What Can the First Foremost Resource Really Do? Carnegie Mellon University: Engineering & Public Policy Annual Research Review, Pittsburgh, Pennsylvania, November 1, 2006.

Energy Efficiency for Needy Buyers in a Sellers' Market: How Efficiency Programs Helped the Vermont PSB Reduce the Burden of Electric Costs Even As Market Prices Rose

American Society of Environmental Journalists: Annual Meeting, Burlington, Vermont, October 28 2006.

From Searsburg to Kyoto: Carbon Constraints and State Energy Choices, Annual Meeting Renewable Energy Vermont, Burlington, Vermont , October 19, 2006.

High Temps, High Tech: Energy, Environment & Technology in a Carbon-Constrained World, Vermont Law School, South Royalton, Vermont, October 13, 2006.

Energy Choices in a Carbon Constrained World, Vermont Environmental Consortium -- Environmental Expo 2006, Norwich University, Northfield, Vermont, October 5, 2006.

Building a Good Efficiency Program: What Does A State PUC Need? NARUC: Midwest Energy Efficiency Initiative, Chicago, Illinois, September 27, 2006.

Resource Planning: IRP, Portfolio Management, and Real-World Results, Energy Resources & the Environment Committee, National Association of Regulatory Utility Commissioners, San Francisco, California, August 1, 2006.

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I've Looked at Both Sides Now: Risk Management in Power Purchase Agreements, JPMorgan 2006 Public Power & Gas Conference, New York, New York, May 12, 2006.

Energy Portfolios, Energy Paths, for a Carbon-Constrained World, Town Energy Forum Tunbridge Town Hall, Tunbridge, Vermont, May 9, 2006.

Living In Interesting, Carbon-Constrained, Times, Drawing On Co-op Values To Meet The Challenge of a High Power-Cost World, Keynote Speech: Annual Meeting of the Vermont Electric Cooperative, Smuggler's Notch, Vermont, April 29, 2006.

Emergency Preparedness: Joint Responses to Common Challenges, Network on North American Studies in Canada: Conference & Working Groups, U.S.-Canada Fulbright Association, Ottawa Canada, March 23-34, 2006.

H. 859 The Energy Security & Reliability Act, Vermont Senate: Committee on Natural Resources & Energy, Montpelier, Vermont, March 22, 2006.

S.124 An Act Relating to Applications to Extend the Operation of Vermont Yankee Nuclear Power Plant and Related Certificate of Public Good Process, Vermont Senate: Committee on Finance, Montpelier, Vermont (by telephone), February 28, 2006.

Market Mechanisms for Controlling Green House Gas Emissions, (Moderator & Provocateur), 4th Annual Business Sustainability Initiative Conference of Tuck School of Business, Vermont Law School, and Thayer School of Engineering, Hanover, New Hampshire, February 24, 2006.

The Waiting Resource: Energy Efficiency as a Way to Lower Electricity Costs and Burdens, Arkansas Public Service Commission, Little Rock, Arkansas, February 20, 2006.

An Energy Future for Vermont in a Carbon-Constrained World, Grace C. Clarke Annual Lecture: Unitarian Universalist Assembly, Montpelier, Vermont, February 19, 2006.

Warning Signs, Winning Solutions: Vermont's Energy Future in a Low Carbon World

Vermont Senate, Committee on Natural Resources & Energy Montpelier, Vermont, February 17, 2006.

Biofuels in Our New Energy Economy, Cumberland School of Law, Samford University. Birmingham, Alabama, February 10, 2006.

Energy Needs, Energy Options: World, Regional and State Matters Relevant to Electricity Choices for Vermont, Town of Manchester Planning Commission, Manchester VT, December 19, 2005.

Trapped As Buyers in A Seller's Market: Can Vermonters Do Better In A Carbon-Constrained World? VLS-Snelling Institute: Vermont's Energy Future, Vermont State House, Montpelier, VT, December 12, 2005.

Sub-National Climate Schemes: U.S. Regional Green House Gas Initiatives, Center for International Sustainable Development Law, McGill University, Montreal, Canada, December 4, 2005.

Energy Environment and Law for Our World, Our Nation, and VLS, Institute for Energy and the Environment at Vermont Law School, Reception, Washington, DC, November 3, 2005.

Energy, Environment and Law for Our World, Our Nation and VLS, Trustees' Meeting, Vermont Law School, South Royalton, VT, September 30, 2005.

Wrap Up Panel: Energy Efficiency As A Resource, Third National Conference, American Council for an Energy-Efficient Economy, Berkeley, CA, September 27, 2005.

The True Value of Photo-Voltaic Distributed Generation, Annual Meeting, Renewable Energy Vermont, South Burlington, VT, September 21, 2005.

Energy, Environment and Law for Our World, Our Nation and VLS, Student Open House, Institute for Energy & the Environment, Vermont Law School, South Royalton, VT, September 20, 2005.

Energy Futures, Energy Choices, For Vermont and for America, Mark Johnson Show with host Ken Squier, WDEV half-hour radio interview, August 26, 2005.

Discussions Re Research Agendas and Power Resource Expectations, Advisory Council, Electric Power Research Institute, San Diego, CA, August 6-8, 2005.

Guest of Honor Comments: Thanks ...and Challenges! Summer 2005 Dinner, Energy Resources & the Environment Committee, National Association of Regulatory Commissioners, Austin, TX, July 27, 2005.

Technical, Financial and Environmental Aspects of Rational, Resource Selection, Electricity Committee of National Association of Regulatory Utility Commissioners Austin, TX, July 26, 2005.

Trapped As a Buyer in A Seller's Market: Can Vermont Do Better By the Decade's End?

Keynote speech Windham Foundation Conference: Vermont's Energy Future, Grafton, VT, July 10, 2005.

FERC & NARUC Powers and Goals: Jurisdictional Lines, Agency Skills and Investor Expectations, NARUC/FERC Resource Planning and Procurement Forum of Commissioners, Chicago, IL, May 16, 2005.

Energy, Environment, and Law for Our World, Our Nation and VLS, Vermont Law School Faculty Luncheon, South Royalton VT, May 10, 2005.

Energy Siting Challenges: Getting Out of a Dead End—Honorably! Canadian Association of Members of Public Utility Tribunals (CAMPUT), 2005 Annual Meeting, Quebec City, QC, Canada, May 3, 2005.

Whither Power Markets? Jurisdictional Issues, Institutional Competence, and Investor Requirements Affecting the Future of Wholesale Power Markets, American Public Power Association, 2005 Annual CEO Meeting, Scottsdale, AZ, March 7, 2005.

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