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Renewable and Appropriate Energy Laboratory (RAEL) | <http://rael.berkeley.edu>

POSITIONS HELD

- 2010 – 2011 (Inaugural) Chief Technical Specialist for Renewable Energy and Energy Efficiency, The World Bank Group
- 2008 - Director, Transportation Sustainability Research Center (TSRC), Institute of Transportation Studies, University of California, Berkeley
- 2007 - 2009 Executive Committee, Energy Biosciences Institute (UCB/LBL/UIUC); \$500 million biofuels institute funded by BP
- 2005 - 2010 Co-Director, Berkeley Institute of the Environment
- 2004 - Class of 1935 Distinguished Chair in Energy
- 2001 - Professor of Public Policy in the Goldman School of Public Policy, University of California, Berkeley
- 2001 - Professor in the Energy and Resources Group, University of California, Berkeley
- 2001 - Professor of Nuclear Engineering, University of California, Berkeley
- 1999 - Founding Director, (**Renewable and Appropriate Energy Laboratory; RAEL**) University of California, Berkeley
- 1999 - 2001 Associate Professor of Nuclear Engineering, University of California, Berkeley
- 1998 - 2001 Associate Professor in the Energy and Resources Group (ERG), University of California, Berkeley
- 1997 - 1999 Chair, Science, Technology & Environmental Policy Program (STEP), Woodrow Wilson School of Public and International Affairs, Princeton University
- 1997 - 1999 Class of 1934 Preceptor, Woodrow Wilson School of Public and International Affairs
- 1993 - 1999 Assistant Professor of Public and International Affairs, Woodrow Wilson School of Public and International Affairs, Princeton University
- 1993 - 1999 Research Faculty, Center for Energy and Environmental Studies, School of Engineering and Applied Science, Princeton University

- 1993 - Permanent Fellow, African Academy of Sciences
- 1991 - 1993 Research Associate, Northeast Regional Center for Global Environmental Change, and the Department of Physics, Harvard University
- 1991 - 1993 Affiliate Fellow, Center for Science and International Affairs, John F. Kennedy School of Government, Harvard University
- 1988 - 1991 Weizmann & Bantrell Postdoctoral Research Fellow in the Division of Engineering and Applied Science, and the Division of Biology, California Institute of Technology

EDUCATION

Ph.D.	Harvard University	Physics	June 1988
M.A.	Harvard University	Physics	June 1986
A.B.	Cornell University	Physics (cum laude)	May 1984

RESEARCH INTERESTS

Systems science of energy innovation, deployment, and impacts. Low-carbon energy service delivery at household to village to national and regional scales. Energy policy. Energy innovation and the process research and development. Energy services and under-served communities.

NOTABLE ACTIVITIES

Member, Board of Reviewing Editors for *Science Magazine*, American Association for the Advancement of Science

Member of the United Nations Secretary General's High Level Group on Sustainable Energy for All (SE4All), 2011 - 2012

Australian National Climate Commission - Foreign Expert, September 2011

Chief Technology Specialist, director for Renewable Energy and Energy Efficiency, The World Bank, 2010 – 2011.

Named by Secretary of State Hilary R. Clinton to be the first Clean Energy Fellow to the Americas, Announcement April 15, 2010.

National Advisory Council on Environment and Technology (NACEPT), U. S. Environmental Protection Agency, 2010 - 2012.

Member, National Academy of Science's Computing Research for Environmental and Societal Sustainability, 2010 – 2015.

Member, National Academy of Science, Board on Global Science and Technology, 2009 - 2014

Economic and Allocation Advisory Committee (EAAC) Appointed by Governor Schwarzenegger, 6-30-09: Mandate to develop the greenhouse gas cap and trade market rules and recommend revenue allocation policies.

Coordinating lead author for the Intergovernmental Panel on Climate Change (IPCC) Special Report on Renewable Energy Sources and Climate Change Mitigation (2009 – 2011).

Host/'Energy Czar' of the 5 part *Science Channel* TV series 'Ecopolis' (2008/9).

Copenhagen Climate Council (invited/elected member August 2008)

President, AAAS Section X (Societal Impacts of Science and Technology) American Association for the Advancement of Science (2009 – 2010).

Co-Developer of Property Assessed Clean Energy [PACE] Financing Model: energy efficiency and solar energy financing plan that permit installation of clean energy systems on residences with no up-front costs. Named by Scientific American as the #1 World Changing Idea of 2009. (co developer with Cisco DeVries and others).

Chairman of the Research Board, Enphase Energy (Petaluma, CA), company to develop micro-inverters for solar photovoltaic systems and energy efficiency services (2008 - present).

Low-carbon fuel design plan (Alex Farrell, Peter Schwartz and Daniel Kammen, 2006). This eventually became California Executive Order 7-01, the Low Carbon Fuel Standard.

Nobel Peace Prize (2007), Intergovernmental Panel on Climate Change, Contributing Lead Author on IPCC Reports (2000 – present).

Distinguished Citizen Award, Sustainable Energy, Commonwealth Club of California (2007).

Energy Biosciences Institute, Proposal lead-author and Executive Committee Member, \$500 million BP funded institute on sustainable biofuels.

Conducted first ever field-based exposure-response study in rural developing nations (Laikipia, Kenya, 1993- 2002). Publication *The Lancet*, *Science*, *Scientific American*.

21st Century Earth Award (Japan, 1993): for research addressing the amelioration or solution of such global environmental problems as climate change, deforestation or biodiversity preservation Citation:

For research aimed at reducing greenhouse gas emissions and improving environmental health in developing nations: a proposal for energy management, cooking technology, and education.

BUSINESS and PRIVATE SECTOR EXPERIENCE

Board of Directors, *Imara Energy* (Menlo Park, CA), 2009 - 2010
Member of the Research Board, *Enphase Energy Inc.* (Petaluma, CA). 2008 -
Board of Directors, *Electricity du Portugal – Renewables* (Madrid, Spain, LLC). 2008 - 2012
Corporate Board, *Direct Carbon, Inc.* (Fuel cell company), San Francisco, CA. 2008 -

TEACHING

University of California, Berkeley

- Seminar on Systemic Action (with George Lakoff), (ER 298)
- Advanced Public Policy Analysis (Pub Pol 290 & 205)
- Wind Energy (ER291) (with Dr. Alex Farrell)
- Photovoltaic Materials (ER226) (with Dr. Eicke Weber/Prof. Eugene Haller)
- Environmental Classics (ER290) (with Dr. Isha Ray)
- Methods in Interdisciplinary Studies ('Tricks of the Trade') (ER292B)
- Freshman Seminar: The Century of Fossil Fuels, the Century of Global Warming (ER24)
- Energy and Society (ER100/200) & (PubPol 184/284)
- Renewable Energy (ER120)
- The Politics of Climate Change Policy (ER290) [faculty advisor]
- Energy and Development (ER290)
- Group Studies in Energy Research (ER298)
- Individual Research in Energy (ER299)
- Issues in Nuclear Science and Technology (NE39) (team taught)
- Honors Research – Environmental Science, Policy and Management (ESPM, College of Natural Resources, H196)

Princeton University

- Environment and Development (WWS 571b)
- Technology Transfer and Development (WWS 571c)
- Methods in Science, Technology and Public Policy (WWS 589)
- Process and Methods in Science and Technology Policy (WWS 308)
- Topics in Renewable Energy Conversion (MAE 319) (team taught)
- Science, Technology and Public Policy (WWS 304)
- Environmental Science and Policy (ENV 201) (team taught)

Harvard University

- Senior Engineering Thesis Research (Engineering Sciences 96r)
- Biomass, Land Management, and Environmental Change (Chair, Working Group) John F. Kennedy School of Government

California Institute of Technology

- Tropical Development and Conservation (Biology 23)

POSTDOCTORAL ADVISEES

- 2011 - **Solomon Abede Asfaw** (Ph.D. 2010), University of the Negev, Israel). Energy systems models.
- 2008 - 2009 **Felix Cruetzig** (Ph.D. 2008) Free University of Berlin. Energy-climate models; sustainable cities.
- 2004 - 2005 **Magda Moner y Girona** (Ph.D. 2002) University of Barcelona, Spain, Materials Science
Current: Senior Research Scientist, ISPRI, Italy
- 2004 - 2005 **Frank Ling** (Ph.D. 2003) University of California, Berkeley, Chemistry
Current: Science fellow, Tsubuka Science City (Japan).
- 2000 - 2004 **Timothy Lipman** (Ph.D. 1999) University of California, Davis, Environmental Policy Analysis/Graduate Group in Ecology; Institute of Transportation Studies - Davis)
Current: Research Scientist, Institute of Transportation Studies, UC Berkeley
- 2000 - 2002 **Antonia Herzog** (Ph.D. 1997, University of California, San Diego, Physics). UC Presidential Postdoctoral Fellow, 2000 – 2001
Current: Senior Policy Researcher, Natural Resources Defense Council, Washington, DC.
- 1998 - 2001 **Lloyd Connelly** (Ph.D. 1998, University of California, Berkeley, Mechanical Engineering; M. D., University of California, Davis).
Current: University of California, Davis, Resident, Internal Medicine
- 1997 - 1999 **Daniel Klooster** (Ph.D. 1997, University of California, Los Angeles, Geography)
Current: Professor of Geography, Florida State University
- 1996 – 1997 **Lisa Naughton** (Ph.D. 1996, University of Florida, Wildlife Ecology)
Current: Assistant Professor of Geography, University of Wisconsin, Madison.

DOCTORAL DISSERTATION ADVISEES (UCB students unless indicated)

- 2008 - 2012 Kevin Fingerman (ERG) “Measuring and monitoring the water resource impact of biofuel production and trade”
- 2011 – 2012 Nadia Ameli (Italy)
- 2008 - Cathy Kunkle (ERG) “Community energy strategies for sustainability”
- 2009 – Autumn Petros-Good (ERG) “Dynamic modeling of energy supply and transmission’
- 2009 – James Nelson (Chemistry) “Dynamic modeling of energy supply and transmission’
- 2008 – Josiah Johnston (ERG) “Dynamic modeling of energy supply and transmission’
- 2007 – 2012 Christian Casillas (ERG) “Rural energy and development strategies”
- 2007 – 2011 Zachary, Norwood (ERG) “Solar thermal energy systems”

- 2006 - Niels Tomijima (ERG)
- 2006 - 2008 Daniel Prull, "Wind energy engineering"
- 2006 - 2011 Anand Gopal, "Bioenergy Electrochemistry"
- 2005 - Carla Peterman, "Innovation and implementation in the energy sector".
- 2005 – 2009 Cyrus Wadia, "Development of novel nano-solar technologies"
Current: White House Office of Science and Technology Policy: Renewable Energy Policy Specialist
- 2004 - 2009 Charles Kirubi (ERG) Dissertation: *Assessment of Community-Based Electric Micro-grids as an Option for Off-grid Rural Electrification in Kenya*
- 2005 - 2011 Derek Lemoine, "Real options analysis of electrified transportation options"
Current: Assistant Professor of Economics, The University of Arizona
- 2005- 2009 Charles Kirubi, "Power Sector Reform and Development in Senegal"
Current: Assistant Professor, Kenyatta University, Nairobi, Kenya
- 2005 – 2009 Adriana Valencia, "Renewable Energy Development in Colombia"
Current: Inter-American Development Bank, Washington, DC
- 2004 - 2008 Renee Kuriyan (Co-Chair with Isha Ray)
- 2003 - 2007 Gregory Nemet, "Energy R&D Policy"
- 2002 - 2009 Tracey Osborne, "Biomass and Development in Latin America"
- 2003 – 2008 Matthias Fripp, "Optimal investments in low-carbon energy infrastructure"
Current: Lecturer, Environmental Change Unit, Oxford University
- 2001 - 2008 Rebecca Ghanadan, "Energy and Globalization in the Tanzanian Market", Link Energy Fellow, 2003 – 2005; Chancellor's Dissertation Fellow (2006/7)
- 2001 - 2008 Kamal Kapadia, "Renewable Energy for Development"
 Link Energy Fellow, 2004 – 2006
Current: Lecturer, Environmental Change Unit, Oxford University
- 2000 - 2003 Nate Hultman, "Carbon Markets, Climate Change Science and Policy", NASA Earth Sciences Doctoral Fellow, 2000 – 2003.
Current: Assistant Professor of International Environmental Policy, University of Maryland.
- 1999 – 200X Andrew MacAllister, "Renewable energy infrastructure", Link Energy Fellow, 1999-00
- 2000 - 2005 Joanna Lewis, "Wind energy infrastructure in China"
Current: Assistant Professor of International Environmental Policy, Georgetown University.
- 1999 - 2003 Donna Green, "Solar battery charging, development, and politics in Thailand".
Current: Lecturer, University of New South Wales, Environmental Studies.
- 1999 - 2005 Robert Bailis, "Renewable energy and development", FLAS Fellow, 1999-2000. Link Energy Fellow, 2002 – 2004.
Current: Assistant Professor, Yale School of Forestry and Environmental Studies, Yale University.
- 1998 - 2005 Arne Jacobson, "Renewable energy and development" Link Energy Fellow, 2000 – 2001.
Current: Assistant Professor, Environmental Science, and Researcher, Schatz Energy Laboratory, Humboldt State University.

- 1998 - 2004 Chris Greacen, "Renewable energy and development", US EPA STAR Fellow, 1998 - 2001.
Current: President, Pelangi Thai
- 1997 - 2001 Richard D. Duke (STEP, Princeton) "Economics of renewable energy technologies" (Link Energy Foundation Fellow, '98 - '99; US EPA STAR Fellow, 1998 - 2001). Thesis: *Clean Energy Technology Buydowns: Economic Theory, Analytic Tools, and the Photovoltaics Case*
Current: Senior Financial Analyst, MacKenzie Consulting, New York City, NY.
- 1996 - 1999 Katherine Purvis (Chemistry, Princeton) "Toxic Paint Solvents and Worker Exposure in Kenya" (PEI-RISE; with S. Bernasek, Chemistry)
Current: Associate Professor of Chemistry and Environmental Studies, The Claremont Colleges, Claremont, California
- 1996 - 2001 Robert Margolis (STEP, Princeton) "US energy R&D and innovation"
Current: Senior Policy Advisor, National Renewable Energy Laboratory (Washington, D. C. Office).
- 1995 - 2000 David Hassenzahl (STEP, Princeton). Thesis: *Comparative Environmental Regulation and Risk Management*
Current: Associate Professor of Science Policy, University of Nevada, Las Vegas (Greenspun School of Public Policy)
- 1995 - 2000 Majid Ezzati, (STEP, Princeton). Thesis: *Energy Technology, Indoor Air Pollution, and Respiratory Infections in Developing Countries: A Field Study from Central Kenya* (SSRC International Pre-Dissertation Fellow, '97 - '98).
Current: Associate Professor of Public and International Health, Harvard University School of Public Health. Professor of Public Health, Imperial College of Science and Technology, London, England
- 1996 - 1998 Tracy Holloway (Atmospheric Sciences, Princeton University)
Current: Associate Professor, Nelson Institute, University of Wisconsin
- 1994 - 1997 Amy F. Richardson (WWS, Princeton), *People, Preferences, Parties and PAC's: Constituent Representation in the Senate on Environmental Issues* (with L. M. Bartels).
Current: Senior Fellow, Environmental Policy Analysis, The Rand Corporation, Pittsburgh, PA.

Dissertation Committees (not serving as chair):

- 2011 Gabrielle Wong-Parodi, Energy and Resources Group
- 2009 Corinne D. Scown, Civil and Environmental Engineering
- 2008 - 2008 Rebecca Jones, Materials Science
- 2005 - 2008 Xuan Chen, Materials Science
- 2005 - 2008 Pedro Viera, Civil Engineering, Life-Cycle Assessment
- 2004 - 2006 Brenda Haendler, Civil and Environmental Engineering
Current: AAAS Fellow (Department of State)
- 2002 - 2005 Tonio Buonosissi, Materials Science, Photovoltaic Materials
- 1999 - 2005 Paul Baer, ERG, UC Berkeley

- 2001 – 2005 Daniel Glaser, Independent Doctoral Program, Visual Information Design
 1998 – 2002 Chris Stipe (Mechanical Engineering, UC Berkeley)
Current: Postdoctoral Fellow, Lawrence Berkeley National Laboratory
 1997 – 2001 Teresa Holloway, Atmospheric and Oceanic Studies, Princeton University
Current: Assistant Professor in the Gaylord Nelson Institute for Environmental Studies, Center for Sustainability and the Global Environment (SAGE), and the Energy
 1993 – 1997 Georgios Kassinis, WWS, Princeton University
Current: Associate Professor of Public Policy, University of Cyprus, Greece.

UNDERGRADUATE THESIS ADVISEES

- 1999 – 2000 Advised 4 undergraduate senior projects (UC Berkeley), departmental honors (3)
 1998 – 99 Advised 7 senior theses (Princeton University)
 1996 - 97 Advised 6 senior theses (Princeton University)
 Student honors include: Marshall Fellowship, a Fulbright Scholarship (to Kenya); the Westoff Prize in Demography; Woodrow Wilson School Senior Thesis Prize; Princeton Environmental Institute Senior Thesis Prize; Civil Engineering and Operations Research Senior Thesis Award (CEOR Prize).
 1995 - 96 *On leave:* Advised 1 senior thesis (Princeton University)
 Student honors include: the Lieutenant John A. Larkin, Jr. Memorial Prize (WWS); and the Environmental Studies Senior Thesis Award from the Princeton Environmental Institute.
 1994 - 95 Advised 7 senior theses (Princeton University)
 Student honors include: a Rhodes Fellowship; a Marshall Fellowship; Princeton University's Pyne Prize; and a Fulbright Scholarship (to Mexico)
 1993 - 94 Advised 5 senior theses (Princeton University)
 Student honors include: the Gaile F. Johnson Prize in Public Affairs (WWS); and a Fulbright Scholarship (to Kenya)
 1992 - 93 Advised 2 senior theses (Harvard University)
 Including one nominated for a Hoopes Prize
 1991 - 92 Advised 2 senior theses (Harvard University)

EXTERNAL RESEARCH FUNDING AWARDS (Principal Investigator unless noted)

Current & Research Past Support:

- 2011 – 2013 California Energy Commission, California Energy Futures to 2050, \$650,000.
 2010 – 2012 Lawrence Livermore National Laboratory, P21: Utility Systems Modeling for the 21st Century, \$175,000
 2009 – 2011 U. S. Department of Energy Pacific Region Clean Energy Application Center, \$1,500,000.

- 2009 – 2010 Vestas, LLC, “Wind energy design strategies”, \$277,000
- 2009 Congressional Research Service, Energy Planning Grant, \$50,000
- 2008 – 2010 California Air Resources Board, “Feebates and greenhouse gas management in California”, UC Davis/UC Berkeley, \$450,000.
- 2007 – 2017 The Energy Biosciences Institute, Primary Author and Section Coordinator, Global Systems and Impacts Section, British Petroleum, \$500 million
- 2006 – 2007 Santa Barbara Green Development Coalition, \$25,000
- 2006 Americans for Energy Independence, \$20,000
- 2006 - The Karsten Family Foundation Endowment Gift for the Renewable and Appropriate Energy Laboratory, \$400,000
- 2006 – 2008 Urban Sustainability Institute, the Gordon and Betty Moore Foundation, ‘Sustainable Urban Settlements, \$1,150,000/year
- 2006 - 2008 PIER-EA EEGP Application for Project entitled "Optimization of Novel Distributed Energy Networks to Reduce Greenhouse Gas emissions in California", \$75,000 (co-PI with Stephen Schneider, Stanford University).
- 2005 – 2008 “Resources Policy Internship Program”, California Public Utilities Commission, \$550,000
- 2005 – 2006 Planning Grant, the Gordon and Betty Moore Foundation, ‘Sustainable Urban Settlements (joint with the National Academies of Science): \$745,000 (\$342,000 to the University of California).
- 2004 – 2005 U. S. Environmental Protection Agency, “Analysis of Innovation Potential for Energy Efficiency”, \$50,000
- 2004 - 2005 National Renewable Energy Laboratory, \$28,000.
- 2004 - 2009 UC Berkeley/ITRI (Industrial Technology Research Institute, Republic of Taiwan): manager, with Prof. A. Majumdar, of \$500,00/year research program (tentative duration: 5 years, \$2,500,000).
- 2005 - US DoE/California Energy Commission, “CHP Research and Outreach Center”, \$650,000
- 2003 – 2004 Kirsch Foundation, “A Hydrogen Pathway for California”, 20,000
- 2003 – 2004 California Energy Commission/PIER Program, “Wind-hydrogen development”, \$75,000.
- 2003 - 2004 “A Review of Approaches to Advanced Power Technology Programs in the United States and Abroad Including Linked Mobile and Stationary Sector Developments”, California Air Resources Board, \$63,000.
- 2002 – 2003 California Air Resources Board, “Review of power generation options”, \$65,000.
- 2002 - 2005 Sandia National Laboratory, “Modeling hydrogen/renewable energy power parks”, \$90,000
- 1999 - “Research, education and outreach on energy and sustainable societies” The Energy Foundation, (San Francisco, CA), \$1,050,000.
- 2000 Solo Energy Corporation. Unrestricted gift to support RAEL, \$40,000.
- 2000 – 2001 Core Management Team (with E. Vine [LBL], J. Sharpless [former CEC Commissioner], J. Quinn [UC Davis], K. Birkinshaw [CEC]), California Energy Commission, Public Interest Environmental Research – Environmental Area (PIER-EA), \$10,500,000 annual program budget.

- 2001 – 2002 “UV Water Purification Technology for Development”, Award Winning Entry, the World Development Marketplace Competition, \$100,500.
<http://www.developmentmarketplace.org/html/results.html#DMAward>
- 2000 – 2001 Faculty Research Grant (COR), “Sustainable Renewable Energy Markets”, \$5600.
- 2000 – 2004 “Resources Policy Internship Program”, California Public Utilities Commission, \$815,000.
- 2000-2002 “Biomass Energy For Sustainable Economic, Social, And Environmental Development In Zimbabwe”, Shell Environmental Initiative (London, UK), \$260,000.
- 1999 - 2000 “Photovoltaic System Field Evaluation and Training Program for East Africa”, \$54,000, The Lewis Anthony Dexter Charitable Trust (Chicago, Illinois, USA).
- 1999 - 2000 “Dissemination of Small-scale UV Water Disinfection Systems in Southern Mexico: Support and Evaluation”, \$12,000, The Lewis Anthony Dexter Charitable Trust (Chicago, Illinois, USA).
- 1998 - 2000 Co-PI (w/Lisa Naughton, University of Wisconsin) “Resource Access and Environmental Change: An Analysis of the Linkages Between Forest Property Rights, Biofuel Management, and Ecological Impacts in western Uganda”, \$50,000, National Science Foundation Grant SBR 98-10144; Division of Geography and Regional Science.
- 1996 - 1998 "Community Energy, Ecology and Health Management: Laikipia, Kenya". The Summit Foundation, Washington, DC, \$198,000.
- 1996 - 1998 “Sustainable development in Molo, Kenya,” \$95,211. The Dubois Fund, Houston, TX.
- 1996 - 1998 "Community Energy, Ecology and Health Management: Laikipia, Kenya". The Compton Foundation, Menlo Park, CA, \$25,000.
- 1995 - 1996 MacArthur Foundation grant for student-faculty collaborative research, \$7,600.
- 1993 - 1995 "Engineering and policy analysis of renewable energy technology transfer: solar and nuclear energy," Department of Energy, Northeast Regional Center for Global Environmental Change, \$66,500.
- 1993 - 1994 Research Fellowship: Program on Environment, The East-West Center for Cultural and Technical Exchange, Honolulu, Hawaii, \$9,000.
- 1993 *Award Recipient*: 21st Century Award from Nihon Keizai Shimbun, Inc. and the Global Industrial and Social Progress Research Institute: ¥5 m (\$45,000).
- 1992 - 1996 Center for Field Research (*Earthwatch*): \$94,000; "Solar and wind energy for Kenya." Additional local expertise research and training components were supported by: Green Cross International (1995), UNESCO (1994) to provide scholarships to African scholars and community activists working in the area of renewable energy and the environment, \$72,000.

AWARDS

- 2011 Fellow, American Association for the Advancement of Science (AAAS)

Citation: *for demonstrating the value of rigorous interdisciplinary work combining technical expertise with policy analysis, with a particular focus on renewable energy systems.*

- 2010 Playboy's Honor Roll of 20 Innovative College Professors
- 2009 Chancellor's Campus Sustainability Award (2009), Chancellor's Advisory Committee on Sustainability, University of California, Berkeley
- 2007 Nobel Peace Prize awarded to the Intergovernmental Panel on Climate Change (Kammen is one of ~ 300 lead authors and 2,000 participants for the preparation of IPCC documents and reports)
- 2007 Distinguished Citizen Award. Category: Sustainable Energy, Commonwealth Club of California
- 2004 – Class of 1935 Distinguished Chair in Energy
- 2001 Aldo Leopold Environmental Leadership Fellowship (*Declined*).
- 2000 Development Marketplace Award Winner, the World Bank. "Low Cost UV Water Disinfection System for Household Use in Lesser-Developed Nations (Dr. Lloyd Connelly and D. M. Kammen).
WWW: <http://www.developmentmarketplace.org>
- 1996 – 1999 Class of 1934 Preceptor (Woodrow Wilson School)
- 1996 Bronze Medal (with Danielle A. Gordon) *Chicago Quantitative Alliance 1995 Academic Competition* for the paper, "Uncertainty and overconfidence in time series forecasts: application to the Standard & Poor's 500 stock index", *Applied Financial Economics*, **6 (3)**, 189 – 198 (1996).
- Awarded the ANBAR Management Intelligence Citation of Excellence (1997):
<http://www.anbar.co.uk/anbar/excellence/authors.htm>
- 1994 Fellow, American Physical Society (1994). Citation:
For his efforts to foster development with culturally appropriate renewable energy projects and to link local sustainable development with programs to mitigate global environmental degradation.
- 1993 *21st Century Earth Award*: for research addressing the amelioration or solution of such global environmental problems as climate change, deforestation or biodiversity preservation (\$45,000). Citation:

For research aimed at reducing greenhouse gas emissions and improving environmental health in developing nations: a proposal for energy management, cooking technology, and education.

- 1991 Teaching Award, Biology Undergraduate Student Curriculum Committee, California Institute of Technology.
- 1988 – 1991 Weizmann & Bantrell Postdoctoral Fellowship in the Division of Engineering and Applied Science (1988-89), Division of Biology (1989-91); California Institute of Technology.
- 1984 Cornell University A. B., *Cum Laude* (Physics).
- 1980 Westinghouse Science Talent Search: Honors Group.

EDITORIAL BOARDS

Member, Board of Reviewing Editors for *Science Magazine*, American Association for the Advancement of Science, 2012 -

Scientific American, 2009 -

Journal of Renewable Energy Research and Development, 2009 -

Environmental Research Letters, Editor-in-Chief (& Founding Editor), 2006 -

Innovations, 2005 – 2010.

East African Journal of Physical Sciences. 2005 - 2008

Annual Review of the Environment and Resources (2001 – 2005); Associate Editor, 2003 - 2006.

Chemosphere, Editor, Global Change Science and Policy Section, 1993 – 1999

Global Change Science (journal developed from *Chemosphere*), 1999 –2004

ADVISORY COMMITTEES

Board of Trustees, the Head-Royce School, 2009 -

Allocation and Economic Advisory Committee on Greenhouse Gas Emission Permits, convened by California Governor Schwarzenegger, 2009 - 2010

Science Advisory Committee, Chabot Space and Science Center, Oakland CA, 2008 -

Advisory Committee, State of California, AB118, The Alternative and Renewable Fuel and Vehicle Technology Program (2008 - 2009). Appointed by the California Energy Commission and the California Air Resources Board.

Chair-Elect, American Association for the Advancement of Science (AAAS), Section on Societal Impacts of Science and Engineering (2008 – 2009; Chair 2009 – 2011).

Member, American Physical Society Task-Force on Energy Efficiency (2007 - 08).

Advisory Board, Energy & Environment X PRIZE Foundation (2007 – 2009)

Member, Advisory Council, National Center for Atmospheric Research (NCAR), 2007 - .

Principal author and technical advisor, California State Ballot Initiative on clean energy, "Proposition 87", November 2006. Election result: failed 53%/47%

Member, Mayor Gavin Newsome's (SF) Clean Technology Advisory Council, (2005 – 2007)

Faculty Reviewer, *The Triple Helix: The National Journal of Science, Society, and Law*

Member, Canadian National Advisory Panel on Sustainable Energy Science and Technology Strategy, Appointed by the Minister of Natural Resources of Canada, 2005 – 6.

Program Committee, World Conference on Physics and Sustainability, Durban South Africa, 2005.

Union of Concerned Scientists, Scientific Advisory Board (2004 - 2009)

University of California Green Buildings/Clean Energy Steering Committee, 2003.

Elected At Large Member, Section on Societal Impacts of Science and Engineering (Section X), American Association for the Advancement of Science (AAAS), 1998 – 2002.

Member of the Board, The Utility Reform Network (2001 - 2006)

California Energy Commission, Core Management Team, Public Interest Environmental Research – Environmental Area (PIEREA), \$10,500,000 annual budget, 2000 – 2002.

Roster of Experts, Scientific and Technical Advisory Panel (STAP); Global Environment Facility (GEF), 1995 - 2007

The Annapolis Center for Risk Analysis, 1995.

Team Leader, Evaluation of Energy, Environment, and Development Programme, Africa Division, Swedish International Development Cooperation Agency (SIDA), 1996 - 1997

U. S. Environmental Protection Agency (Climate Change Division)

Editorial Advisory Council, *African Technology Forum*, 1994 - 1996

U. S. Department of Energy: National Institute for Global Environmental Change, 1993 – 1995

Elected Member, The Council of Advisors: Energy Section (<http://www.thecouncils.com/>)

REFEREE

Journals:

Ambio, Appropriate Technology, Atmospheric Environment, Energy Policy, The Energy Journal, Energy - The International Journal, Environment, Environmental Health Perspectives, Environmental Research Letters, Environmental Science & Technology (EST), Global Biogeochemical Cycles, Global Change Science, Nature, Risk Analysis, Science, Scientific American, Solar Energy, Strategic Environmental Management, World Bank Research Observer, Whole Earth, World Development

Publishers:

Cambridge University Press, Island Press, McGraw Hill, MIT Press, Resources for the Future, UNDP, World Resources Institute, Yale University Press

Funding Agencies:

Compton Foundation, Earthwatch, GEF/UNDP, National Institute of Health, National Science Foundation, US AID, US EPA, US NIH, Winrock International Foundation, UK National Science and Technology Council.

PROFESSIONAL MANAGEMENT EXPERIENCE

- 2008 - 2010 Chair, Section on the Social Impacts of Science and Technology, American Association for the Advancement of Science (AAAS)
- 2008 - Director, Transportation Sustainability Research Center, University of California, Berkeley
- 2007 - 2009 Section Coordinator, Systems Science and Impacts, \$500,000,000 Energy Biosciences Institute (BP funding to the University of California, Lawrence Berkeley National Laboratory, and the University of Illinois at Urbana Champaign)
- 2006 Acting Chair, Energy and Resources Group
- 2005 - Co-Director, Berkeley Institute of the Environment
- 2004 - 2009 UC Berkeley/ITRI (Industrial Technology Research Institute, Republic of Taiwan): manager, with Prof. A. Majumdar, of \$500,00/year research program (tentative duration: 5 years, \$2,500,000).
- 2000 – 2001 Core Management Team (with E. Vine [LBL], J. Sharpless [former CEC Commissioner], J. Quinn [UC Davis], K. Birkinshaw [CEC]), California Energy Commission, Public Interest Environmental Research – Environmental Area (PIER-EA), \$10,500,000 annual program budget.
- 1999 - Founding Director, Renewable and Appropriate Energy Laboratory (UC Berkeley)

LANGUAGES & TECHNICAL SKILLS

Spanish (conversant), Swahili (conversant)

Private Pilot (PPL: Single Engine, Land)

Concert electrical wiring (*Grateful Dead*, Summer 1988)

Computer Programming: BASIC, C++, FORTRAN, PASCAL, STATA, MATLAB

REFERENCES (available on request)

UNIVERSITY SERVICE, RESEARCH AND PROGRAM ADMINISTRATION

At the World Bank (2010 – 2011)

2010 – 2012 Member of the Board, The Great Energy Challenge (National Geographic Society)

At the University of California, Berkeley (1999 –)

- 2008 - 2009 Chair, Faculty Search Committee, “Energy systems analysis”, Energy and Resources Group. Hired: Duncan Callaway (and spouse Meredith Fowlie to Agricultural and Resource Economics).
- 2007 - 2008 Chair, Faculty Search Committee, “Managed Ecosystems”, Energy and Resources Group. Search did not result in a faculty hire
- 2007 - 2008 Member, Search Committee, “Dean of the Goldman School of Public Policy”, Recommendation to the Chancellor of two candidates for further consideration
- 2007 - Executive Committee, Energy Biosciences Institute (\$500 BP supported institute)

- 2006 Acting Chair, Energy and Resources Group
- 2005 – 2006 Chancellor’s Advisory Committee on Sustainability (CACCS)
- 2005 - Executive Committee, CITRIS (Center for Information Technology Research in the Interest of Society)
- 2005 - Co-Chair, Berkeley Institute of the Environment
- 2003 - 2004 Regent’s Steering Committee, Clean Energy/Green Building Task Force
- 2002 - 2004 Executive Committee, Berkeley ‘Future of the Planet/Environmental Institute’ program.
- 2001 – 2003 Harry S. Truman Fellowship Selection Committee
- 2002 – 2003 Udall Fellowship Selection Committee, 2001 – 2003.
- 2002 Chair, Faculty Search Committee, “Science, Technology and Environmental Policy”, ERG Search.
- 2001 - 2002 Search Committee, Dean of the College of Natural Resources, Successful Recruitment of Professor Paul Ludden (University of Wisconsin, Madison)
- 2002 – 2004 Committee on Status of Women and Ethnic Minorities (SWEM)
- 2001 - 2002 Chair, Faculty Search Committee, “Environmental and Development Sociology”, Energy and Resources Group. Successful recruitment of Dr. Isha Ray
- 2002 – 2003 Search Committee Member, “Science, Technology and Environmental Policy”, joint search between ERG and the Goldman School of Public Policy (1999 – 2001)
- 1999 – 20004 Campus Representative - Advisory Committee of the University of California Energy Institute (UCEI)
- 1999 – 2003 Co-Chair, Curriculum Committee, Energy & Resources Group
- 1998 - Faculty Affiliate, African Studies Program
- 1998 - 2008 Faculty Affiliate, Center for Risk Analysis
- 1998 - 2005 Faculty Affiliate, Health, Environment and Development (HED) Program

At Princeton University (1993 – 1999)

- 1998 – 1999 Faculty Fellow, Princeton Society of Fellows
- 1996 – 1999 Labouisse Development Studies Fellowship Selection Committee/Chair
- 1997 – 1999 Chair, Science, Technology & Environmental Policy (STEP) Program
- 1993 – 1997 Co-Chair, Program on Science, Technology and Public Policy
- 1996 – 1997 Woodrow Wilson School Student-Faculty Diversity Committee
- 1996 – 1999 Associate Faculty, Princeton Environmental Institute
- 1994 – 1999 Faculty Fellow, Forbes College, Princeton University
- 1993 – 1994 Princeton Environmental Initiative, Planning committee
- 1993 Program Director, conference: "Polluted or Pristine? Scientific, cultural, and policy implications of pre-industrial anthropogenic impact on the global carbon cycle", hosted by the Program on Environment, East-West Center, Honolulu, Hawaii. September 17 - 19, 1993.
- 1993 – 1994 Woodrow Wilson School: Undergraduate Prize Committee
- 1993 – 1999 Woodrow Wilson School: Ph.D. Admissions Committee
- 1993 – 1999 Woodrow Wilson School Undergraduate Committee
- 1993 – 1999 Princeton University Committee on African Studies

At Harvard University (1991 – 1993)

1991 – 1993 Harvard University Committee on African Studies

INTERNATIONAL ORGANIZATIONS / BOARD SERVICE

- Association for Environmental Studies and Sciences, Member (2008 -)
- President Elect/President/Past-President of the Section of Societal Impacts of Science and Technology, American Association for the Advancement of Science (AAAS). Elected by vote to three year term (2008 – 2011)
- Editor-in-Chief, *Environmental Research Letters* (2006 -).
- Advisor, Energy Sector, Asian Development Bank, 2000 - 2004
- Coordinating Lead-Author, Intergovernmental Panel on Climate Change (IPCC), Special Report on Technology Transfer (1998 - 2000)
- Global Environment Facility (GEF/UNDP), Scientific and Technical Review Panel, 1995 -
- Chairman of the Advisory Panel, EcoEquity (<http://www.ecoequity.org>)
- Co-Chair (with Stephen Karekezi) Princeton-AFREPREN (African Energy Policy Research Network) Visiting Fellows Program for emerging scholars from developing nations.
- *Scientific American*, Board of Advisors, 2009 -
- Scientific Advisory Board, Chabot Space and Science Center, 2009 -
- Advisory Board Member, Carbon Clear (UK Based carbon offset / environmental options group)
- AAAS Member-at-Large, Section Committee on Societal Impacts of Science and Engineering, 1998 - 2002 (elected member).
- American Physical Society, 1983 - 1987, 1993 -
- Elected to the Executive Committee: *Forum on Physics and Society*, 1995 - 1998
- Nominating Committee, 1997 - 1998
- American Association of Geographers, 1992 - 1997
- American Wind Energy Association, 1994 -
- National Council, Federation of American Scientists, 1995 - 2000
- African Academy of Sciences, Elected Permanent Fellow, 1995

BUSINESS AND COMMERCIAL ENDEAVORS

- Technical and Strategic Advisor, Duke Energy, 2009 - 2011
- Technical Advisor, MiaSole (solar thin film), 2009 - 2011
- Scientific Advisory Board, The Eureka Fund (San Francisco, CA), 2009 –
- VP for Research, Enphase Energy (Petaluma, CA), 2008 –
- Consultant, Direct Carbon (San Francisco, CA), 2008 –
- Environmental Board of Advisors, Greenwala (San Francisco, CA), 2008 -
- Founding Partner, Renewable Energy Funding (Oakland, CA), 2008 -
- IMARA Energy Storage (Menlo Park, CA), 2009 –

- Board of Directors, Baseload Energy, 2008 –
- EDP Renewables (Electricite du Portugal, Renewables), Board of Directors, 2008 -
- Board of Advisors, Cumulus Climate Fund (2007 – 2008)

MOVIE MEDIA APPEARANCES / PUBLIC OUTREACH

Earth 2050 - Discovery Channel

<http://dsc.discovery.com/energy/energy-2050/about-the-show.html>

Extended interview (Kammen)

<http://dsc.discovery.com/videos/earth-2050-dan-kammen-industry-and-environment.html#fbid=RBN2As1DI-r>

December 21, 2011

Beyond the Light Switch - Detroit Public Television

<http://www.beyondthelightswitch.com/>

November 11, 2011

Solar Energy at the World Bank - Berkeley Energy and Resources Collaborative (BERC)

<http://www.youtube.com/watch?v=SibUu3SsPBY&feature=related>

April 29, 2011

Power Surge - NOVA PBS

<http://www.pbs.org/wgbh/nova/tech/power-surge.html>

April 20, 2011

Ecopolis (series) - Discovery Channel

Five part TV Series hosted by Daniel Kammen

<http://science.discovery.com/tv/ecopolis/ecopolis.html>

October 10, 2010

This Week in Northern California: Climate Conversation Interview with Dan Kammen

This Week in Northern California

<http://www.youtube.com/watch?v=u3TvX3QrO5k>

October 8, 2010

Powered by Coal - 60 Minutes (CBS)

http://cnettv.cnet.com/60-minutes-powered-coal/9742-1_53-50070761.html

April 27, 2009

The Big Energy Gamble - NOVA PBS

<http://www.pbs.org/wgbh/nova/tech/big-energy-gamble.html>

January 20, 2009

Heat - Frontline

<http://www.pbs.org/wgbh/pages/frontline/heat/view/>

October 21, 2008

The Ethanol Solution - 60 Minutes

<http://www.cbsnews.com/stories/2006/05/04/60minutes/main1588659.shtm>

October 8, 2007

e²: the economics of being environmentally conscious, hosted by Morgan Freeman
PBS - episode 4, "Growing Energy"

http://www.pbs.org/e2/episodes/204_growing_energy_trailer.html

January 20, 2007

Nanotechnology: The Power of Small (Fred Friendly) – PBS

October, 5, 2005

BOOKS / CHAPTERS & EDITED VOLUMES

In preparation/unpublished

Energy Farmers: An exploration of old and new modes of thinking about and managing energy resources (Princeton University Press)

The Road to Celebration: Adventures in Energy and Development in route to Sandinista Nicaragua. Unpublished Manuscript.

In print:

- 2012 Lynette I. Millett, Deborah L. Estrin, Alan Borning, David Culler, Thomas Dietterich, Jennifer Mankof, Daniel M. Kammen, Roger Peng, and Andreas Vogel (2012). *Computing Research for Sustainability* - Committee on Computing Research for Environmental and Societal Sustainability, Computer Science and Telecommunications Board (National Academy of Science: Washington, DC).
http://www.nap.edu/catalog.php?record_id=13415
- 2011 Hafmeister, D., Kammen, D. M., Levi, Barbara G., and Schwartz, P., editors *Physics of Sustainable Energy II: Using Energy Efficiently and Producing it Renewably* (American Institute of Physics Volume 1401: Melville, NY).
- 2011 Edenhofer, O., R. Pichs-Madruga, Y. Sokona, K. Seyboth, D. Arvizu, T. Bruckner, J. Christensen, J.-M. Devernay, A. Faaij, M. Fischedick, B. Goldstein, G. Hansen, J. Huckerby, A. Jäger-Waldau, S. Kadner, **D. M. Kammen**, V. Krey, A. Kumar, A. Lewis, O. Lucon, P. Matschoss, L. Maurice, C. Mitchell, W. Moomaw, J. Moreira, A. Nadai, L.J. Nilsson, J. Nyboer, A. Rahman, J. Sathaye, J. Sawin, R. Schaeffer, T. Schei, S. Schlömer, R. Sims, A. Verbruggen, C. von Stechow, K. Urama, R. Wiser, F. Yamba, T. Zwickel, (2011)

- Summary for Policy Makers*. In *IPCC Special Report on Renewable Energy Sources and Climate Change Mitigation* [O. Edenhofer, R. Pichs-Madruga, Y. Sokona, K. Seyboth, P. Matschoss, S. Kadner, T. Zwickel, P. Eickemeier, G. Hansen, S. Schlömer, C. v. Stechow (eds.)] (Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA).
- 2011 Grubler, *et al.* (2011) *Global Energy Assessment* (Knowledge Module 24: The Energy Technology Innovation System (ETIS)).
- 2011 Juma, C., *et al.*, (2011kr) *The New Harvest: Agricultural Innovation in Africa* (Oxford University Press: Oxford, UK).
- 2010 Cruetzig, F. S. and Kammen, D. M. (2010) "Getting the carbon out of transportation fuels", in *Global Sustainability: A Nobel Cause*, Schellenhuber, H.-J., Molina, M., Stern, N., Huber, V., and Kadner, S. (eds). (Cambridge University Press: Cambridge, UK), 307 – 318.
- 2009 Pinho, Manuel, *et al.* (2009) *A New Energy Era: Renewable Energy in Portugal* "Building and enabling a low-carbon economic recovery: collaborative options for the United States, Portugal, and the European Union" (Ministério da Economia e da Inovação: Lisbon, Portugal).
- 2003 Kammen, D. M., Bailis, R. and Herzog, A. V. (2003) *Clean Energy for Development and Economic Growth: Biomass and Other Renewable Energy Options to Meet Energy and Development Needs in Poor Nations* (UNDP: New York).
- 2003 Fayemi, A. and Kammen, D. M. (2003) *African Women: A Photo Essay of the Lifeblood of a Continent* (Ebenezer Press: White Plains, NY).
- 2002 Climate Technology Initiative, Contributing Author (2002) *Technology Without Borders: Case Studies of Successful Technology Transfer* (International Energy Agency: Paris, France).
URL: <http://www.iea.org/public/studies/cti.htm>
- 2000 Intergovernmental Panel on Climate Change Working Groups II and III (2000) *Methodological and Technological Issues in Technology Transfer* (Cambridge University Press: New York, Cambridge UK and New York, NY). Coordinating Lead Author. ISBN 0-521-80494-9.
- 1999 Kammen, D. M. and Hassenzahl, D. M. *Should We Risk It? Exploring Environmental, Health and Technological Problem Solving*, in press, Princeton University Press. ISBN 0-169-00426-9, 406 pages, 77 tables, 82 illustrations.
WWW: <http://socrates.berkeley.edu/~dkammen/#book>

- Book Club Selection: *Library of Science*. Reviewed in *Science*, *Risk Analysis*, *Scientific American*, *WholeEarth*.
- 1996 Nditu, M. and Kammen, D. M. *Solar Cookbook: Less Wood, Less Smoke, Better Health* (Academy Science Publishers: Nairobi, Kenya). ISBN 9966-831-32-0.
- 1996. Kiswahili version of *Solar Cookbook*. *Kitabu cha Upishi Ukitumia Kawi ya Jua*. ISBN 9966-831-33-9.
- 1994 Kammen, D. M., Smith, K. R., Rambo, A. T. and Khalil, M. A. K (editors) Preindustrial Human Environmental Impacts: Are there Lessons for Global Change Science and Policy? *Chemosphere* (Pergamon Press: Oxford UK), **Vol. 29 (5)**, 317 pages.

JOURNAL PUBLICATIONS, BOOK CHAPTERS & ARTICLES

NOTE: MOST OF THE ARTICLES LISTED BELOW ARE AVAILABLE IN PDF FORMAT FROM:

<http://rael.berkeley.edu/papers>

NOTE ON AUTHOR ORDER: FOR ALL PUBLICATIONS I GENERALLY USE 'PHYSICS CONVENTION' FOR AUTHOR ORDERING ON COLLABORATIVE PAPERS: STUDENT AUTHORS FIRST, RANKED BY CONTRIBUTION AND PRINCIPAL INVESTIGATOR / RESEARCH DESIGNER / RESEARCH DIRECTOR IN THE LAST POSITION.

NOTE: • = REFEREED / PEER-REVIEWED PUBLICATIONS (166 OF 268 TOTAL)

2012

- YYY • Casillas, C. E. and Kammen, D. M. (2012) "The challenge of making reliable carbon abatement estimates: the case of diesel microgrids", *Sapiens*, **5 (1)**, <http://sapiens.revues.org/1228>
- ZZZ. Casillas, C. E., Nussbaumer, P., Bazilian, M., Kirubi, G. and Kammen, D. M. (2012) *Kenya case*.
268. • Tidwell, V., Dale, L Guido Franco, Avery, K., Wei, M., Kammen, D. M. and Nelson, J. H. (2012) "*Energy Impacts*"

267. • Kammen, D. M. (2012) “An energy research and development plan for the 21st Century”, *Nature*, in press.
266. Kammen, D. M. (2012) “Solar energy generating social change”, *San Francisco Chronicle*, June 2, 2012
<http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2012/06/03/INDA1OP107.DTL>
 reprinted in *Capital Weekly*:
http://www.capitolweekly.net/article.php?_c=10mihartqwtps9p&xid=10migcah5ukphwy&done=.10mihartqwu2s9p
265. Kammen, D. M. (2012) “Transportation: the California Model” *Issues in Science and Technology*, **Spring**
<http://www.issues.org/28.3/forum.html>
264. Shirley, R. and Kammen, D. M. (2012) *Energy Policy*
263. • Shirley, R., Jones, C. M. and Kammen, D. M. (2012) “A Household Carbon Footprint Calculator for Islands: Case study of the United States Virgin Islands”, *Ecological Economics*, **XX**, yyy – zzz.
<http://dx.doi.org/10.1016/j.ecolecon.2012.04.027>
262. • Casillas, C., and Kammen, D. M. (2012) “Quantifying the social equity of carbon mitigation strategies,” *Climate Policy*, **10**, 1080 – 1094.
DOI: 10.1080/14693062.2012.669097
261. Kammen, D. M. (2012) *Nikkan Koygo Shimbun* (February 3).
260. Kammen, Daniel M. (2012) “Kosovo counting on the U.S. for energy leadership” *San Francisco Chronicle*, A10 (Tuesday, March 27). URL:
<http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2012/03/27/EDKM1NR08K.DTL#ixzz1qNITka16>
259. Kammen, D. M. (2012) “It takes a community to define a discipline: the 5th anniversary of *Environmental Research Letters*”, *Environ. Res. Lett.*, **7**.
258. • Nelson, J. H., Johnston, J., Mileva, A., Fripp, M., Hoffman, I., Petros-Good, A., Blanco, C., and Kammen, D. M. (2012) “High-resolution modeling of the western North American power system demonstrates low-cost and low-carbon futures”, *Energy Policy*, **43**, 436–447.
257. • Bazilian, M., Nussbaumer, P., Rogner, H.-H., Brew Hammond, A., Foster, V., Pachauri, S., Williams, E., Howells, M., Niyongabo, P., Musaba, J., Gallachóir, B. Ó., Radka, M., Kammen, D. M. (2012) “Energy access scenarios to 2030 for the

power sector in sub-Saharan Africa”, *Utilities Policy*, **20**, 1 – 16.

256. • van Vuuren, D., Nakicenovic, N., Riahi, K., Brew-Hammond, A., Kammen, D. M., Modi, V., Nilsson, M., Smith, K. R. (2012) ‘An energy vision: transformation towards sustainability — interconnected challenges and solutions’, *in press*.

2011

255. Kammen, D. M. (2011) “Solar opportunity or new trade war”, *The San Francisco Chronicle*, **A10**, December 28.
URL: <http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2011/12/27/EDQN1MHAO2.DTL>
254. Kammen, D. M. (2011) “Listening to the planet and building a sustainable energy economy”, in Hafmeister, D., Kammen, D. M., Levi, Barbara G., and Schwartz, P., editors *Physics of Sustainable Energy II: Using Energy Efficiently and Producing it Renewably* (American Institute of Physics Volume 1401: Melville, NY).
253. Plevin, R. and Kammen, D. M. (2011) " Indirect Land Use and Greenhouse Gas Impacts of Biofuels" *Encyclopedia of Biodiversity*, Levin, S. and Tilman, G. D. (eds).
252. • Lemoine, D. M., Fuss, S., Szolgayova, J., Obersteiner, M., and Kammen, D. M. (2011) “Greenhouse gas policy portfolios depend on beliefs about climate sensitivity and negative emission technologies,” *Climatic Change*
http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1558744
251. • Bazilian, M., Nussbaumer, P., Gualberti, G., Haites, G. E., Levi, M., Siegel, J., Kammen, D. M., and Fenhann, J. (2011) “Informing the Financing of Universal Energy Access: An Assessment of Current Flows,” *The Electricity Journal*, **27 (7)**, 57 – 82. doi:/10.1016/j.tej.2011.07.006
250. • Sager, J., Apte, J. S., Lemoine, D. M. and Kammen, D. M. (2011) “Reduce growth rate of light-duty vehicle travel to meet 2050 global climate goals,” *Environ. Res. Lett.* **6**, doi:10.1088/1748-9326/6/2/024018
249. • Williams, B., Martin, E., Lipman T. E., and Kammen, D. M. (2011) “Plug-in-Hybrid Vehicle Use, Energy Consumption, and Greenhouse Emissions: An Analysis of Household Vehicle Placements in Northern California,” *Energies*, **4**, doi:10.3390/en40x000x
248. Kammen, D. M. and He, G. (2011) “Partners or Rivals for the New Energy Economy?” *China Daily*.
URL; http://www.chinadaily.com.cn/usa/china/2011-01/21/content_11895619.htm

247. Kammen, D. M. (2011) "Sustained vigilance on quality is a key to low-cost solar to meet energy needs in developing countries," *PV Net*
246. • Casillas, C. and Kammen, D. M. (2011) "The delivery of low-cost energy rural energy services", *Energy Policy*, **xxx**, yyy – zzz.
doi:10.1016/j.enpol.2011.04.018
245. • Jones, C. M. and Kammen, D. M. (2011) "Quantifying lower-carbon lifestyle opportunities for U.S. households and communities", *Environmental Science and Technology*, **45**, 4088–4095.
dx.doi.org/10.1021/es102221h
244. • Kunkel, C, and Kammen, D. M. (2011) "Design and implementation of carbon cap and dividend policies", *Energy Policy*, **39**, 477 - 486.
doi:10.1016/j.enpol.2010.08.046

2010

243. • Casillas, C. and Kammen, D. M. (2010) "The energy-poverty-climate nexus," *Science*, **330**, 1182 – 1182. DOI: 10.1126/science.1197412
242. • Lemoine, D., Plevin, R., Cohn, A., Jones, A., Brandt, A., Vergara, S., and Kammen, D. M. (2010) "The climate impacts of bioenergy systems depend on market and regulatory policy contexts", *Environmental Science & Technology*, **44**, 7347 - 7350.
241. Webber, Michael E. and Kammen, D. M. (2010) "The obsolescence of oil", *Scientific American*, September, 95.
240. • Schewel, L. and Kammen, D. M. (2010) "Smart Transportation: Synergizing Electrified Vehicles and Mobile Information Systems" *Environment*, September/October, 24 – 35.
239. • Jonathan Koomey, Marilyn Brown, Richard Brown, Chris Calwell, Ralph Cavanagh, Rick Diamond, Joseph H. Eto, Ashok Gadgil, Howard Geller, José Goldemberg, Chuck Goldman, David Goldstein, Steve Greenberg, Holmes Hummel, Dan Kammen, Skip Laitner, Mark Levine, Amory Lovins, Gil Masters, Jim McMahon, Alan Meier, Evan Mills, Steve Nadel, Bruce Nordman, Lynn Price, Marc Ross, Jayant Sathaye, James Sweeney, Diana Vorsatz, John Wilson, and Ernst Worrell (2009) "Defining A Standard Metric For Electricity Savings," *Environmental Research Letters*, **5**, 1 – 10. doi:10.1088/1748-9326/5/1/014017

238. Kammen, D. M. (2010) "Innovations in Energy for a Living Future", *Public Service Review: Science and Technology*, http://www.publicservice.co.uk/news_story.asp?id=13831
237. Searchinger, T., Hamburg, S., Melillo, J., Kammen, D. M., Lubowski, R., Oppenheimer, M., Robertson, G. P., Schlessinger, W., and Tilman, G. D. (2010) "Bioenergy: Counting on Incentives—Response", *Science*, **327 (5790)**, 1200 - 1201.
236. • Fingerman, K., Torn, M. S., O'Hare, M. and Kammen, D. M. (2010) "Accounting for the water impacts of ethanol production", *Environmental Research Letters*, **5**, 1 – 7. doi:10.1088/1748-9326/5/1/014020
235. • Hertel, T., Golub, A., Jones, A. D., O'Hare, M., Plevin, R. J., and Kammen, D. M. (2010) "Effects of Maize ethanol on global land use and greenhouse gas emissions: Estimating market mediated responses", *BioScience*, **60 (3)**, 223 – 231.
234. • Kammen, D. M. (2010) 'Renewable energy' in Schneider, S. H., Rosencranz, A., Mastrandrea, M. D., and Kuntz-Duriseti, K. *Climate Change Science and Policy*, Chapter 44, 446 – 455.
233. Searchinger, T., Hamburg, S., Melillo, J., Kammen, D. M., Lubowski, R., Oppenheimer, M., Robertson, G. P., Schlessinger, W., and Tilman, G. D. (2010) "Carbon Calculations to Consider—Response", *Science*, **327 (5967)**, 781.
232. • Wei, M., Patadia, S. and Kammen, D. M. (2010) "Putting renewables and energy efficiency to work: How many jobs can the clean energy industry generate in the U. S.?" *Energy Policy*, **38**, 919 - 931.
231. Kammen, D. M. (2010) "2020 Visions: Energy," *Nature*, **463 (7)**, 27.

2009

230. • Creutzig, F., Papsen, A., Schipper, L. and Kammen, D. M. (2009) "Economic and environmental evaluation of compressed-air cars", *Environmental Research Letters*, **4**, 1 – 9). doi:10.1088/1748-9326/4/4/044011
229. Kammen, D. M. (2009) "Copenhagen becomes Hope-nhagen for the Earth," *The San Francisco Chronicle*, D-8, December 20. <http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2009/12/20/INO1B6JBD.DTL>
228. Kammen, D. M. and Lemoine, D. (2009) "Incremental and transformational change - Case discussion of 'World Without Oil: Better Place Builds a Future for Electric Vehicles'" *Innovations*, **4 (4)**, 141 – 143.

227. • Creutzig, F. and Kammen, D. M. (2009) "The Post-Copenhagen Roadmap Towards Sustainability: Differentiated Geographic Approaches, Integrated Over Goals," *Innovations*, **4 (4)**, 301 – 321.
226. • Gopal, A. R., and Kammen, D. M. (2009) "Molasses for ethanol: The economic and environmental impacts of adding a new pathway to the lifecycle greenhouse gas analysis of sugarcane ethanol", *Environmental Research Letters*, **4**, 1 -5.
225. • Searchinger, T., Hamburg, S., Melillo, J., Kammen, D. M., Lubowski, R., Oppenheimer, M., Robertson, G. P., Schlessinger, W., and Tilman, G. D. (2009) "Fixing a critical climate accounting error", *Science*, **326**, 527 – 528 (23 October).
224. • McNish, T., Jacobson, A., Kammen, D. M., Gopal, A., and Deshmukh, R. (2009) "Sweet carbon: an analysis of sugar industry carbon market opportunities under the clean development mechanism", *Energy Policy*, **37**, 5459 – 5468.
223. Kammen, D. M., and Baer, P. (2009) "Dialog on science and policy to address the climate crisis: closing plenary of the International Association of Research Universities Climate Congress, Copenhagen, Denmark", *Environmental Research Letters*, **4 (3)**.
222. Lemoine, D., and Kammen, D. M. (2009) "Addendum to 'An innovation and policy agenda for commercially competitive plug-in hybrid electric vehicles,' *Environmental Research Letters*, **4**, 1 – 3; doi: 10.1088/1748-9326/4/3/039701
221. Kammen, D. M., Derek Lemoine, Samuel M. Arons, and Holmes Hummel (2009) "Saving fuel, reducing emissions: making plug-in hybrid vehicles cost-effective", *Access*, **34**, 1 – 9.
220. Kammen, D. M. (2009) "A checklist for work on climate change", *The Edmonton Journal* March 21, 2009, A19.
219. Angelides, P. and Kammen, D. M. (2009) "Invest pollution trading dividends in the clean energy industry", *San Francisco Chronicle*, April 2, **A-15**.
<http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2009/04/01/ED4B16QT12.DTL>
218. Kammen, D. M. (2009) "Obituary of Alex E. Farrell", *Materials Research Society Bulletin*, **34**, 4. URL: www.mrs.org/bulletin
217. Kammen, D. M. (2009) "Financing energy efficiency", *Earth 3.0 (Scientific American)*, 21. URL: www.SciAmEarth3.com
216. • Kirubi, C., Jacobson, A., Kammen, D. M. and Mills, E. (2009) "Community-based electric micro-grids can contribute to rural development: Evidence from Kenya", *World Development*, **37 (7)**, 1208 - 1221.

215. • Wadia, C., Alivisatos, P. and Kammen, D. M. (2009) "Materials Availability Expands the Opportunity for Large-Scale Photovoltaics Deployment", *Environmental Science & Technology*, **43**, (6), 2072 - 2077.
A Journal of the American Chemical Society Select publication:
<http://pubs.acs.org/JACSBeta/jvi/issue8.html>
214. Kammen, D. M. (2009) "A low carbon national energy agenda", *Bulletin of the Atomic Scientists* (16 January).
URL: <http://www.thebulletin.org/web-edition/features/a-low-carbon-national-energy-agenda>
213. Fuller, M, Portis, S. and Kammen, D. M. (2009) "Towards a low-carbon economy: municipal financing for energy efficiency and solar power", *Environment*, **51** (1), 22 – 32.
212. • Kammen, D. M., Arons, S., Lemoine, D., and Hummel, H. (2009) "Cost-effectiveness of greenhouse gas emission reductions from plug-in hybrid electric vehicles," in *Plug-in Electric Vehicles: What Role for Washington?* (Brookings Institute: Washington, DC), Chapter 9, 170 – 191.

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211. • Brownell, S. A., Chakrabarti, A. R., Kaser, F. M., Connelly, L G., Peletz, R. L., Reygadas, F., Lang, M. J., Kammen, D. M. and Nelson, K. L. (2008) "Assessment of a low-cost, point-of-use, ultraviolet water disinfection technology," *Journal of Water and Health*, **6.1**, 53 – 65.
210. Kammen, D. M. (2008) "The financing revolution for a low-carbon economy", *The Breakthrough Institute*, December 10, Online:
http://thebreakthrough.org/blog/2008/12/the_financing_revolution_for_a.shtml
209. Kammen, D. M. (2008) "Read the fine print on presidential energy plans," *San Francisco Chronicle*, **B-11** (October 24, 2008)
<http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2008/10/23/EDV213N2H3.DTL>
208. Kammen, D. M. (2008) "Fuelling change", *Monocle (UK)*, **19 (Dec/Jan)**, 80 – 81.
URL: <http://www.monocle.com/sections/business/Magazine-Articles/The-smart-money--Global/>
207. Kammen, D. M. (2008) "Innovation agenda," *Our Planet* (United Nations Environment Programme: New York, NY), December, 27 – 28.
URL: <http://www.unep.org/ourplanet/2008/dec/en/>

206. Kammen, D. M. "Wanted: innovating utilities," *Newsday* (New York City/Long Island), July 27, 2008.
205. Kammen, D. M. (2008) "A low-carbon diet", *San Francisco Chronicle*, May 18.
<http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2008/05/18/IN3R10MGSK.DTL&hw=The+low+carbon+diet&sn=001&sc=1000>
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