

Citations, Additional References and Resources

AACR: American Association for Cancer Research News Cancer Tip: Nanoparticles Can Damage DNA, Increase Cancer Risk (17 Apr 2007).

AAAAI. The Allergy Report, Vol. 1. (American Academy of Allergy Asthma & Immunology, Milwaukee, WI (2000).

ABI. A Changing Climate for Insurance. Association of British Insurers (2006).

Abt. Davidson, K., Deck, L., King, E., Landry, M., McCubbin, D., Post; E. From SAI: M. Das, S.G. Douglas, K. Jayaraman, T. Myers, B. N. Venkatesh, Y--H Wei; From E.H. Pechan & Associates, Inc.: M. Cohen, F. Divita, P. Horch, S. Rothschild. The Particulate-Related Health Benefits of Reducing Power Plant Emissions. Abt Associates, Boston, MA (Oct 2000).

Adam, D. Hidden eco-dangers of hydropower. The Guardian (28 March, 2007).

Aillery, M., Gollehon, N., Johansson, R., Kaplan, J., Key, N., Ribaud, M. Managing Manure to Improve Air and Water Quality. U.S. Department of Agriculture. Economic Research Service, Report No. ERR9. www.ers.usda.gov/publications/ERR9/ (2005).

Aitken, D. The climate stabilization challenge: Can renewable energy sources meet the target? Renewable Energy World (Nov/Dec 2004).

Aitken, D. Transitioning to a Renewable Energy Future. International Solar Energy Society (2005).

Alley, R.B., Clark, P.U., Huybrechts, P., Joughin, I. Ice-sheet and sea-level changes. Science 310: 456 (2005).

Ames, B. Nanotechnology delivers military power. Military and Aerospace Electronics (2005).

Anastas, P.T., Warner, J.C. Green Chemistry: Theory and Practice, Oxford University Press (1998).

APHA: American Public Health Association. Precautionary Moratorium on New Concentrated Animal Feed Operations. Policy Number 2003-7 (2003).

APTA: American Public Transportation Association (APTA). The Broader Connection Between Public Transportation, Energy Conservation and Greenhouse Gas Reduction. Produced by ICF International, L, Bailey, P.L. Mokhtarian. A. Little (Feb 2008).

Anderson, R. The Pew Center on Global Climate Change and National Commission on Energy Policy. The Distributed-Storage Generation “Smart” Electric Grid of the Future (2007). http://www.pewclimate.org/docUploads/10-50_Anderson_120604_120713.pdf

Andrews, S., Udall, R. Eight oil industry experts give their views on King Abdullah's 'keep 'em capped' announcement. Peak Oil Review (21 Apr 2008).

Anon. Solar cells go organic. The Economist (2002).

Anon. Nanorod Boost for Solar. Professional Engineering (12 July 2006).

Ansolabehere, S., Deutch, J., Gray, P., et al. The Future of Nuclear Power: An Interdisciplinary MIT Study. Massachusetts Institute of Technology (2003).

AP: Associated Press. Fault line may be near nuke dump (24 Sept 2007).

Arias, O. Presidential address at a WHO/PAHO workshop. San Jose, Costa Rica (Aug 2007).

Armond, M., Tarascon, J.-M., Building better batteries. Nature 451:652-657 (17 Feb 2007).

Arrhenius, S. On the influence of carbonic acid in the air upon the temperature of the ground. Philosophical Magazine 41:237 (1896).

ASIS. American Association of Insurance Services. Cow power: farms seeking to insure growing number of electricity-generating manure digesters. Viewpoint 31(3) (2007).

Bahor, B. U.S. grid data was taken from spreadsheets provided by Mr. Brian Bahor (Covanta) via electronic mail, as used by Research Triangle Institute (RTI) in developing the U.S. EPA's MSW Decision Support Tool (1 Mar 2007).

Ball, J. Wall Street shows skepticism over coal. Three of Wall Street's biggest banks push utilities to plan for impact of emissions caps. Wall Street Journal (4 Feb 2008).

Barnett, T. P., Pierce, D. W., AchutaRao, K. M., Gleckler, P. J., Santer, B. D., Gregory, J. M., Washington, W. M. Penetration of human-induced warming into the world's oceans. Science 309:284-287 (2005).

Bartis, J. T., LaTourrette, T., Dixon, L., Peterson, D.J., Cecchine, G. Oil Shale Development in the United States Prospects and Policy Issues. RAND Corporation, MG-414-NETL (2005).

Baxter, C. How the mighty are falling: Insects and fungi are ravaging oaks in Southeastern Mass., creating a costly cleanup. The Boston Globe (17 July 2008).

BEIR VI. Health effects of exposure to radon. National Academy Press: Washington, DC (1999).

Beral, V., Roman, E., Bobrow, M. (eds.) Childhood Cancer Near Nuclear Installations. BMJ Publications, London (1993).

Berry, G. The Pew Center on Global Climate Change and the National Commission on Energy Policy. The 10-50 Solution: Technologies and Policies for a Low-Carbon Future. Present and Future Electricity Storage for Intermittent Renewables. Lawrence Livermore National Laboratory (2005).

http://www.pewclimate.org/policy_center/policy_reports_and_analysis/in_brief_1050/

Bittner, D. Digital decisions maximize motor efficiency. Plant Services: Digital Edition. 2004. <http://www.plantservices.com/articles/2005/455.html>.

Bourouni, K., Chaibi, M. T., Tadrist, L. Water desalination by humidification and dehumidification of air: state of the art. Desalination 137:167–176 (2001).

Bradsher, K. A new global quandary: costly fuel means costly calories; New York Times (19 Jan 2008).

Brown, E. Renewable energy brings water to the world. RenewableEnergy.com (23 Aug 2005).

Brown, M., Hughes, P., Stovall, T. Potential Carbon Emissions Reductions in the Buildings Sector by 2030. Tackling Climate Change in the U.S. Jan: 52-68 (2007).

Brown, M., Southworth, F., Stovall, T. Pew Center on Global Climate Change. Towards a climate-friendly built environment (2005).
www.pewclimate.org/global-warming-in-depth/all_reports/buildings/index.cfm

Caldeira, K., Wickett, W.E. Oceanography anthropogenic carbon and ocean pH. Nature 365:362–366 (2004).

Callendar, G. S. The artificial production of carbon dioxide and its influence on temperatures. Quarterly Journal of the Royal Meteorological Society. 64:223-227 (1938).

Capital Markets Partnership 2007: Sustainable Mortgage Backed Securities
The Institute for Market Transformation to Sustainability. Washington, DC (2007).

CARB: California Air Resources Board. Report to the California Legislature: Environmental health conditions in California's portable classrooms. California Air Resources Board and California Department of Health Services (2004).

Carbon principles: <http://www.carbonprinciples.org>

Cardis, E., et al. The 15-Country Collaborative Study of Cancer Risk among Radiation Workers in the Nuclear Industry: Estimates of radiation-related cancer risks. *Rad Res* 167, 396–416 (2007).

Carnegie Mellon University Center for Building Performance (2005).
<http://www.arc.cmu.edu/cbpd/index.html>.

Carts-Powell, Y. Let the Sun Shine In: Advances in nanotechnology could herald a breakthrough in the cost effectiveness of solar cells. *IEE Review* (Feb 2006).

Carvalho, G., Moutinho P., Nepstad, D., Mattos L., Santilli, M. An Amazon perspective on the forest-climate connection: Opportunity for climate mitigation, conservation and development? *Environment, Development and Sustainability* 6:163-174 (2004).

Casten, T., Downes, B. Critical Thinking About Energy: The Case for Decentralized Generation of Electricity. *Skeptical Inquirer* (Jan/ Feb 2005).
<http://www.csicop.org/si/2005-01/energy.html>

Casten, T. R. Recycling Energy to Reduce Costs and Mitigate Climate Change, 2007. In: M. C. Maccracken, F. Moore, J. C. Topping (eds.) *Sudden and Disruptive Climate Change: Exploring the Real Risks and How We Can Avoid Them*. Earthscan, London, UK (2007)/

Cederberg, C., Stadig, M. System expansion and allocation in life cycle assessment of milk and beef production. *International Journal of Life Cycle Assessment* 8(6):350-6.
Chaudhari, M., Frantzis, L., Hoff, T. PV grid connected market potential under a cost breakthrough scenario. Navigant Consulting, Inc (2004). www.ef.org/documents/EF-Final-Final2.pdf

Childress, S. In Africa, Outages stifle a boom (17 Apr 2008).

CLB: China Labour Bulletin. (6 Jan 2006). <http://www.clb.org.hk/en/node/19316>

Chivian, E., Bernstein, A. (eds.) *Sustaining Life: How Human Health Depends on Biodiversity*. Oxford University Press, Oxford, UK (2008).

Clancy, K. Greener Pastures: How grass-fed beef and milk contribute to healthy eating. Union of Concerned Scientists. Washington, DC (2006).

Cleveland, C. Energy Quality, Net Energy and the Coming Energy Transition. Department of Geography and Center for Energy and Environmental Studies. Association for the Study of Peak Oil-USA. Boston, MA. (27 Oct 2006).

Colvin, V. The Potential Environmental Impact of Engineered Nanoparticles. *Nature Biotechnology* 21(10):1166-1170 (2003).

Comfort, N.C. *The Tangled Field: Barbara McClintock's Search for the Patterns of Genetic Control*. Harvard University Press, Cambridge, MA, USA (2001).

Covanta/Trinity: Covanta Energy Corporation with assistance from Trinity Consultants. Report: The potential for municipal solid waste (MSW) management for a stabilization wedge (2007).

Coviello, J., Annenberg, M., Lewis, D.B., Johnson, R.F., Ascroft, G., Freeman, T.R., Michael Abrahams, M. The case for decentralized generation of electricity. *Skeptical Inquirer* (May-June 2005).

Cristoffels, J-H. Earthquake Alarm – The Kashiwazaki nuclear incident and the consequences for Japan's nuclear policy. Clingendael International Energy Programme. (August 2007).

CNA: The CNA Corporation. National Security and the Threat of Climate Change. Alexandria, VA (2007).

Cortese, A. Green buildings don't have to be new. *The New York Times* (27 Jan 2008).

Cragle, D.L., et al. Mortality among workers at a nuclear fuels production facility. *Am J Ind Med* 14:379-401 (1988).

CWG: Coal Working Group. Climate Change, Energy, and Sustainable Development: How to Tame King Coal? Premier Ministre, Le Delege Interministeriel Au Developement Durable (2006).

Das, R., Kiley, P.J., Segal, M., Norville, J., Yu, A.A., Wang, L., Trammell, S.A., Reddick, L.E., Kumar, R., Stellacci, F., Lebedev, N., Schnur, J., Bruce, B.D., Zhang, S., Baldo, M. Integration of photosynthetic protein molecular complexes in solid-state electronic devices, *Nano Letters* 4(6):1079-1083 (2004).

Dasgupta, S., Huq, M., Khaliqzaman, M., Pandey, K., Wheeler, D. Indoor air quality for poor families: new evidence from Bangladesh. *Indoor Air* 16(6):426-44 (Dec 2006).

De Castro, J. *The Geopolitics of Hunger*. Casa Editorial do Brasil, Rio de Janeiro, Br (1951).

Denholm, P., Margolis, R. M., Zweibel, K. Potential carbon emissions reductions from solar photovoltaics by 2030. American Solar Energy Society (Dec 2007).

DEFRA: Department of Environment and Rural Affairs, UK. Waste Hierarchy <http://www.defra.gov.uk/environment/waste/topics/pdf/waste-hierarchy.pdf>

- Dimitrov, K. GreenFuel Technologies: A Case Study for Industrial Photosynthetic Energy Capture. Brisbane, Australia (2007).
- Donelan, J.M., Li, Q., Naing, V., Hoffer, J.A., Weber, D.J., Kuo, A.D. Biomechanical energy harvesting: generating electricity during walking with minimal user effort. *Science* 319:807–810 (8 Feb 2008).
- Donnelly, J. Coal's ascent is igniting a debate. *The Boston Globe*, p1 (26 Dec 2007).
- Dooley, M.P., Folkerts-Landau, D., Garber, P. An essay on the revived Bretton Woods System. National Bureau on Economic Research Working Paper Series 9971 (Sept 2003). <http://www.nber.org/papers/w9971>
- Drewitt, A. L. and RHW Langston. Assessing the impact of wind farms on birds. *Ibis* 148:29-42 (2006).
- Dunphy K.A., Taylor, M.R., Banfield, J.F. Environmental Risks of Nanotechnology: National Nanotechnology Initiative Funding, 2000-2004 *Environmental Science & Technology* 40:1401-1407 (2006).
- Edwards, L. Torcellini, P. A Literature Review of the Effects of Natural Light on Building Occupants. National Renewable Energy Laboratory (NREL) (July 2002). http://www.ornl.gov/sci/solar/NREL_TP_550_30769.pdf
- Emanuel, K. Increasing destructiveness of tropical cyclones over the past 30 years. *Nature* 436:686-688 (2005).
- Epstein, P.R. Climate and health. *Science* 285:347-348 (1999).
- Epstein, P.R. Climate change and human health. *New England Journal of Medicine* 353:1433-14 (2005).
- Epstein, P., Diaz, H., Elias, S., Grabherr, G., Graham, N., Martens, W., Mosley-Thompson, E., Susskind, J. Biological and physical signs of climate change: focus on mosquito borne diseases. *Bulletin of the American Meteorological Society*, 79:409-417 (1998).
- Epstein P.R., Selber, J. (Eds.), *Oil: A Life Cycle Analysis of its Health and Environmental Impacts*. Center for Health and the Global Environment, Harvard Medical School. Boston, MA (2002). <http://www.med.harvard.edu/chge>.
- Epstein, P. R., McCarthy, J. J. Assessing Climate Stability, *Bulletin of the American Meteorological Society* 85:1863-1870 (2004).

Epstein, P.R., Guest. G. International architecture for sustainable and global health, In: Guest G. (Ed.) Globalization Health and the Environment: An Integrated Perspective. Pp239-258. Altamira Press, Lanham, MD (2005).

Epstein, P.R., Mills, E. (eds.). Climate Change Futures: Health, Ecological and Economic Dimensions, Center for Health and the Global Environment, Harvard Medical School, Boston, MA (Nov 2005).

http://www.climatechange-futures.org/pdf/CCF_Report_Final_10.27.pdf

EIA: Energy Information Administration. Annual Energy Review 2005. Department of Energy/Energy Information Administration. Washington, DC (2006).

<http://www.eia.doe.gov/oiaf/servicerpt/ulsd/index.html>,

Eshel, G., Martin, P. Diet, energy, and global warming. Earth Interactions, Volume 10, Issue 9 (Apr 2006).

Fanelli, D. Meat is murder on the environment. New Scientist (18 July 2007).

http://www.environment.newscientist.com/article.ns?id=mg19526134.500&feedId=online-news_rss20.

Figueiro, M., Eggleston, G., Rea, M.S. Effects of light exposure on behavior of Alzheimer's patients-a pilot study. Final Report. The Fifth International LRO Lighting Research Symposium, Light and Human Health, November 3–5, 2002. Report No. 1009370. Palo Alto, CA: The Electric Power Research Institute (2004.)

Flavin, C., Sawin, J.L., Mastny, L., Aeck, M.H., Hunt, S., MacEvitt, A., Stair, P., Podesta, J., Hendricks, B., Cohen, A.U., Mohin, T. The Renewable Path to Energy Security. Worldwatch Institute & Center for American Progress (Sept 2006.)

Fleming, D. Why Nuclear Power Cannot be a Major Energy Source. Foundation for the Economics of Sustainability (Apr 2006).

FAO: Food and Agriculture Organization of the United Nations, Animal Production and Health Division, Livestock Information, Sector Analysis and Policy Branch. Responding to the “livestock revolution” – the case for livestock public policies. Rome, Italy (2005a). http://www.fao.org/ag/againfo/resources/documents/pol-briefs/01/EN/AGA01_10.pdf.

_____ Cattle ranching is encroaching on forests in Latin America. Rome, Italy (2005a).

_____ State of the World's Forests. Rome, Italy (2007a).

_____ Livestock's Long Shadow. Rome, Italy (2007b).

_____ Commission on Genetic Resources for Food and Agriculture. The state of the world's animal genetic resources for food and agriculture. (2007c) <http://www.fao.org/docrep/010/a1250e/a1250e00.htm>.

_____ Fargione, J., Hill, J., Tilman, D., Polasky, S., Hawthorne, P. Land clearing and the biofuel carbon debt. *Science* DOI: 10.1126/science.1152747 (online 7 Feb 2008).

Fath, H.E.S. Solar distillation: a promising alternative for water provision with free energy, simple technology and a clean environment. *Desalination* 116, 45–56 (1998).

Fisk, W.J., Rosenfeld, A.H. Estimates of improved productivity and health from better indoor environments. *Indoor Air* 7(3):158-172 (1997).

Fisk, W.J. Health and productivity gains from better indoor environments and their relationship with building energy efficiency. *Annual Review of Energy and the Environment*. 25:537–566 (2000).

Fisk, W.J., et al., Economic benefits of an economizer system: energy savings and reduced sick leave. *ASHRAE Transactions* 111(2): 673-679 (2005).

Frumkin, H., Frank, L., Jackson, R.J. *Urban Sprawl and Public Health*. Island Press, Washington, DC (2004).

Garsten, C., Jacobsson, K. Corporate globalization, civil society and post-political regulation – Whither democracy? *Development Dialogue* (Dag Hammarskjold Foundation) 49:143-157 (Nov 2007).

George, K., Ziska, L.H., Bunce, J.A., Quebedeaux, B. Elevated atmospheric CO₂ concentration and temperature across an urban-rural transect. *Atmospheric Environment*. 41:7654-7665 (2007).

Gjerstad, D.H., Ziska, L.H., Runion, G.B., Prior, S.A., Torbert III, H.A., Rogers Jr, H.H. The Potential Use of Kudzu as a Biofuel [Abstract]. *Alternative Energy Solutions from Alabama's Natural Resources Conference*. [CDROM] (2006).

Gold, R. Oil companies stake future on Canada --- Reversal of pipelines marks shift in outlook; global warming clash? *The Wall Street Journal* (11 July 2007).

Goldemberg, J., Coelho, S. et al. Ethanol Learning Curve—The Brazilian Experience. *Biomass and Bioenergy* 26(3):301-304 (2004).

Goldman, J.C. and J.H. Ryther. Mass production of algae: Engineering aspects. *Biological Solar Energy Conversion*. Pp367-373 (1977).

Goodall, J. *Big Coal: The Dirty Secret Behind America's Energy Future*. Houghton Mifflin Company (2006).

Goodman, B. Pollution is called byproduct of a 'clean' fuel. *The New York Times* (11 Mar 2008).

Griffiths, M., Taylor, A., Aaynillowicz. *Troubled Waters, Troubling Trends: Technology and Policy Options to Reduce Water Use in Oil and Oil Sands Development in Alberta*. Pembina Institute, Alberta, Canada (May 2006).

Guzzone, B., Panehal, A. U.S. perspectives on global opportunities and challenges for landfill methane use. Powerpoint Presentation at Ministerial Meeting (2004).

Haines, A., Smith, K.R., Anderson, D., Epstein, P.R., McMichael, A.J., Roberts, I., Wilkinson, P., Woodcock, J., Woods, J. Policies for accelerating access to clean energy, improving health, advancing development, and mitigating climate change. *The Lancet*. 370(9594):1264-1281 (2007).

Hall-Spencer, J.M., Rodolfo-Metalpa, R., Martin, S., Ransome, E., Fine, M., Turner, S.M., Rowley, S.J., Tedesco, D., Buia, M-C. Volcanic carbon dioxide vents show ecosystem effects of ocean acidification. *Nature* 454:96-99 (2008).

Hansen, J., Nazarenko, L., Ruedy, R., Sato, M., Willis, J., Del Genio, A., Koch, D., Lacis, A., Lo, K., Menon, S., Novakov, T., Perlwitz, J., Russell, G., Schmidt, G.A., Tausnev, N., Earth's energy imbalance: Confirmation and implications. *Science* 308:1431-1435 (2005).

Hansen, J., Sato, M., Ruedy, R., et al. Dangerous human-made interference with climate: a GISS modelE study. *Atmos. Chem. Phys.* 7:2287–2312 (2007).

Hightower, M. The energy challenge. *Nature* 452:285-286 (2008).

Hochman, A.I., Chen, R., Delgado, R.D., Liang, W., Garnett, E.C., Najarian, M., Majumdar, A., Yang, P. Enhanced thermoelectric performance of rough silicon nanowires. *Nature* 451:163-167 (10 Jan 2008).

Hoekstra, P. Enzymes to improve paper quality, reduce energy use, and increase recycling of paper. Nomination for 2006 Presidential Green Chemistry Challenge Awards (Dec 2005).

Houghton, J.T., Jenkins, G.J, Ephraums, J.J. (Eds). *IPCC First Assessment Report. Scientific Assessment of Climate change – Report of Working Group I*. Cambridge University Press, UK (1990).

Hoyos, C., Blas, J. Security fears over food and fuel crisis. *Financial Times* 21 June 2008. HMG: Heschong-Mahone Group. *Daylighting in Schools: An Investigation into the relationship between daylighting and human performance*, submitted to the Pacific Gas and Electric Company, Fair Oaks, CA (1999).

_____. *Daylighting in schools: reanalysis report*. California Energy Commission: Sacramento, CA (2001).

_____ Windows and classrooms: a study of student performance and the indoor environment. 2003, California Energy Commission: Sacramento, CA.

_____ Windows and Offices: a Study of Worker Performance and the Indoor Environment (Technical Report), submitted to the California Energy Commission (2003).

Hobstetter, D. Daylighting and Productivity: A study of the effects of the indoor environment on human function. Real Estate News & Articles (Mar 2007).

Hogrefe, C., Lynn, B., Civerolo, K., Ku, J.-Y., Rosenthal, J., Rosenzweig, C., Goldberg, R., Kinney, P.L. 2004: Simulating changes in regional air pollution due to changes in global and regional climate and emissions. Journal in the Geophysical Research 109:22301 (2004).

Holland, J.M. The environmental consequences of adopting conservation tillage in Europe: reviewing the evidence. Agriculture, Ecosystems & Environment 103:1-25. (2004).

Hoyos, C.D., Agudelo, P.A., Webster, P.J., Curry, J.A. Deconvolution of the factors contributing to the increase in global hurricane intensity. Science 312: 94 – 97 (2006).

House, K.Z., Schrag, D.P., Harvey, C.F., Lackner, K.S. Permanent carbon dioxide storage in deep-sea sediments. PNAS;103:12291-12295 (2006).

Hughes, J. Licensed Emissions and Controlled Releases. Ecologist (July/Aug 2006a).

Hughes, D. Natural Gas in North America: Should We Be Worried? Geological Survey of Canada. World Oil Conference ASPO USA. Boston, MA (26 Oct 2006b).

IFOAM: International Federation of Organic Agriculture Movements. The role of organic agriculture in mitigating climate change (2004).
www.ifoam.org/press/positions/pdfs/Role_of_OA_mitigating_climate_change.pdf.

Interlaboratory Working Group. Scenarios for a Clean Energy Future (Oak Ridge, TN; Oak Ridge National Laboratory and Berkeley, CA; Lawrence Berkeley National Laboratory), ORNL/CON-476 and LBNL-44029 (Nov 2000).
<http://www.ornl.gov/sci/eere/cef/>

IEA: International Energy Agency. 2002 World Energy Outlook Reference Case

_____ World Key Energy Statistics (2006).
<http://www.iea.org/textbase/nppdf/free/2006/key2006.pdf>

_____ Databases for the Coal Information (2006)<http://data.iea.org>.

_____ Medium-term Oil Market Report Paris, France (July 2007).

IPCC: Intergovernmental Panel on Climate Change. IPCC Guidelines for National Greenhouse Gas Inventories, Chapter 2: Waste Generation, Composition and Management Data. Volume 5 (2006). http://www.ipcc-nggip.iges.or.jp/public/2006gl/pdf/5_Volume5/V5_2_Ch2_Waste_Data.pdf

Jacobson, M.Z. Effects of ethanol (E85) versus gasoline vehicles on cancer and mortality in the United States, *Environment, Science & Technology* 10.1021/es062085v (2007).

Kats, G. The Costs and Financial Benefits of Green Building: A Report to California's Green Building Task Force (Oct 2003).

Kats, G. Greening America's Schools: Costs and Benefits. American Federation of Teachers, American Institute of Architects, American Lung Association, Federation of American Scientists, U.S. Green Building Council (2006).

Kearney, D., Mehos, M. Potential Carbon Emissions Reductions from Concentrating Solar Power by 2030 American Solar Energy Society. *Tackling Climate Change in the US* (Jan 2007).

Knox, R.B., Suphioglu, C. Taylor, P., et al. Major grass pollen allergen Lol p1 binds to diesel exhaust particles: implications of asthma and air pollution. *Clin Exp Allergy* 27:246–251 (1997).

Kohler, B., Karch, H., Schmidt, H. Antibacterials that are used as growth promoters in animal husbandry can affect the release of Shiga-toxin-2-converting bacteriophages and Shiga toxin 2 from *Escherichia coli* strains. *Microbiology* 146:1085-1090 (2000).

KEWP: Korea East-West Power Co., Ltd. (2007) web site <http://www.ewp.co.kr>

Jia, G., Wang, H.F., Yan, L., et al. Cytotoxicity of carbon nanomaterials: single-wall nanotube, multi-wall nanotube, and fullerene. *Environment, Science & Technology* 39: 1378 (2005).

Juhasz-Kaszanyitzky, E., Janosi, S., Somogyi, P., Dan, A., van der Graaf-van Bloois, L., van Duijkeren, E., Wagenaar, J.A. MRSA transmission between cows and humans. *Emerging Infectious Disease*. 13(4):630-632 (Apr 2007).

Johnson, C. Low-temp polymer nanotubes fortell plastic circuits. *Electronic Engineering Times* (4 Oct 2004).

Juonon, M. Compressed Air Energy Storage (CAES). Imperial College London. (7 Feb 2007). http://www.doc.ic.ac.uk/~matti/ise2grp/energystorage_report/node7.html

Kanan, M.K., Nocera, D.G. In situ formation of an oxygen-evolving catalyst in neutral water containing phosphate and Co^{2+} . Published online July 31 2008; 10.1126/science.1162018.

Keating, M. Clean Air Task Force. Cradle to Grave: The Environmental Impacts from Coal. P.5 (June 2001).

Kellert, S. R., Heerwagen, J., Mador, M. Biophilic Design: The Theory, Science and Practice of Bringing Buildings to Life. John Wiley, NY (2008).

Kenny, A. The Tricky Question of Biofuels. The Katoomba Group's Ecosystem Marketplace; featured on GreenBiz News (2 April, 2007).
http://www.greenbiz.com/news/reviews_third.cfm?NewsID=35051.

Kern, J.S., Johnson, M.G. Conservation tillage impacts on national soil and atmospheric carbon levels. Soil Science Society of America Journal 57:200-210 (1993).

Klironomos, J.N., Allen, M.F., Rillig, M.C. et al. Abrupt rise in atmospheric CO_2 overestimates community response in a model plant-soil system. Nature 433:621-624 (2005).

Klironomos, J.N., Rillig, M.C., Allen, M.F., et al. Increased levels of airborne fungal spores in response to *Populus tremuloides* grown under elevated atmospheric CO_2 . Can. J. Bot. 75:1670-1673 (1997).

Klengel, T., Liang, W-J., Chaloupka, J. et al. Fungal adenyl cyclase integrates CO_2 sensing with cAMP signaling and virulence. Current Biology, 15:2021–2026 (2005).

Kling, G.W., Evans, W.C., Tanyileke, G., Kusakabe, M. Ohba, T., Yoshida, Y., Hell. J.H. Dgassing Lakes Nyos and Monoun: Defusing certain disaster. PNAS102(40):14185-14190 (4 Oct 2005).

Kolbert, E. The island in the wind. The New Yorker (7 & 14 July 2008).

Koneswaran, G., Nierenberg, D. Global farm animal production and global warming: impacting and mitigating climate change. Environmental Health Perspectives (31 Jan 2008). DOI:10.1289/ehp.11034 <http://dx.doi.org/>.

Krauss, C. An export in solid supply. New York Times (19 Mar 2008).

Krijgsveld, K., Dirksen, S. Effects of modern wind turbines on birds: results of field studies on collision and nocturnal flight patterns in the Netherlands. Bureau Waardenburg bv. Presentation (2006). <http://www.nationalwind.org/events/wildlife/2006-3/presentations/birds/krijgsveld.pdf>

- Kurz, W. Making the paper: Mountain pine beetles contribute to carbon release and climate change. *Nature* 452:987–990 (2008).
- Kutscher, C.F. (ed.). *Tackling Climate Change*. American Solar Energy Society (ASES). (Jan 2007).
- Lal, R., Bruce, J.P. The potential of world cropland soils to sequester C and mitigate the greenhouse effect. *Environmental Science and Policy* 2:177-185 (1999).
- Lal, R. Soil management in the developing countries. *Soil Science* 165(1):57-72 (Jan 2000).
- Langer, R., Tirrell, D.A. Designing materials for biology and medicine. *Nature* 428:487-492 (2004).
- Lavelle, M. Power revolution. *US News & World Reports* (5 Nov 2007).
- Lele, S. *Biodiesel and Jatropha Plantation*. Oscar Publications, New Delhi, India. (2006).
- Lenatti, C. Nanotech's first blockbusters? *Technology Review*. Massachusetts Institute of Technology. 2006:46-52 (Mar 2004).
- Leonard, J. *The Global Environment Fund. The Emerging Smart Grid* (2006).
- Lewis, N. *The Future of Power and Energy in the World* (Jan 2004).
<http://online.kitp.ucsb.edu/online/colloq/lewis1/>
- Lewis, N.L., Nocera, D.G Powering the planet: Chemical challenges in solar energy utilization. *PNAS* 103 (43):15729-15735 (24 Oct 2006).
- Levitus, S., Antonov, J., Boyer, T. Warming of the world ocean, 1955–2003. *Geophysical Research Letters*. 32: L02604 (2005).
- Levy, J., Spengler, J. Modeling the benefits of power plant emission controls in Massachusetts. *Journal of the Air and Waste Management Association*. pp5-18 (Jan 2000).
- Liemann, M. Presentation to National Council for Science and the Environment, Annual Conf, Washington, DC (16-18 Jan 2008).
- Lindroth, R.L. Consequences of elevated atmospheric CO₂ for forest insects. Pp 347-371 in *Carbon Dioxide, Populations, and Communities* (eds.) C. Korner & F.A. Bazzaz). Academic Press (1996).

- Lloyds: Emerging Risks Team Report: Nanotechnology, Recent Developments, Risks, and Opportunities, London, UK (2007).
- LCSE: Lowell Center for Sustainable Production. Clean Tech: An Agenda for a Healthy Economy. UMASS Lowell, Lowell, MA (Dec 2007).
- Lovejoy, T. Save debtor nation's ecology, New York Times OpEd (Oct 1984).
- Lovejoy, T. Presentation to National Council for Science and the Environment, Annual Conf, Washington, DC (16-18 Jan 2008).
- Lovins, A. et al. Winning the Oil End Game. Rocky Mountain Institute, Rocky Mountain Press (2005).
- Matthews, H..D., Caldeira, K. Stabilizing climate requires near-zero emissions. Geophysical Research letters 35, L04705 (2008).
- Mazza, P. Powering Up the Smart Grid: A Northwest Initiative for Job Creation, Energy Security and Clean, Affordable Electricity. Climate Solutions (July 2005).
- McConnell, R., Berhane, K., Gilliland, F., London, S., Islam, T., Gauderman, W. Avol, Margolis, E., Peters, J. Asthma in exercising children exposed to ozone: a cohort study. The Lancet 359:386–391 (2003).
- Ormstad, H., Johansen, B.V., Gaarder, P.I. Airborne house dust particles and diesel exhaust particles as allergen carriers. Clin Exp Allergy 28(6):702-708 (1998).
- McFarling, U. L. A chemical imbalance: Growing seawater acidity threatens to wipe out coral, fish and other crucial species worldwide. Los Angeles Times (3 Aug 2006).
- Makhijani, A. Carbon-Free and Nuclear-Free: A Road-Map for a U.S. Economy Without CO₂ Emissions or Nuclear Power. Institute for Energy and Environmental Research, Takoma Park, MD (2007).
- McMichael, A.J., Powles, J.W., Butler, C.D., Uauy, R. Food, livestock production, energy, climate change, and health. The Lancet Energy and Health Series, Paper 5. The Lancet DOI:10.1016/S0140-6736(07)61256-2. (Pub online 13 Sept 2007).
- MIT: Massachusetts Institute of Technology. The Future of Coal (2007). <http://web.mit.edu/coal/>
- _____ The Future of Nuclear Energy (2003). <http://web.mit.edu/nuclearpower/>
- McKinsey & Co. and The Conference Board, NY Reducing Greenhouse Gas Emissions: How Much at What Cost, J. Creyts, A. Derkach, S. Nyquist, K. Ostrowski, J. Stephenson. (Dec 2007).

McCauley, M. Environmental Impacts of Industrial Farming. Oxfam America (2007). http://www.oxfamamerica.org/whatwedo/where_we_work/united_states/news_publications/food_farm/art2565.html

Meehl, G.A., Washington, W.M., Collins, W.D., Arblaster, J.M., Hu, A., Buja, L.E., Strand, W.G., Teng, H. How much more global warming and sea level rise? *Science* 307:1769 -1772 (2005).

Meehl, G.A., Tebaldi, C. More intense, more frequent, and longer lasting heat waves in the 21st century. *Science* 305:994–997 (2004).

Metz, B., Davidson, O., de Coninck, H., Loos, M., Meyer, L. (eds.) IPCC Special Report Carbon Dioxide Capture and Storage. Cambridge Univ. Press, UK (2005).

Mills, E. From Risk to Opportunity: Insurer Responses to Climate Change. Ceres, Boston, MA (Oct 2007).

Mirabelli, M.C., Wing, S., Marshall, S.W., and Wilcosky, T.C. Asthma symptoms among adolescents who attend public schools that are located near confined swine feeding operations. *Pediatrics* 118:66-75 (2006).

Mitchell, C., Tilman, D., Groth, J.V. Effects of grassland plant species diversity, abundance, and composition on foliar fungal disease. *Ecology* 83:1713-1726 (2002).

Mölder, L. Estonian Oil Shale Retorting Industry at a Crossroads. *Oil Shale. A Scientific-Technical Journal* 21 (2): 97-98. Estonian Academy Publishers. ISSN 0208-189X (2004).

Morris, M., Knorr, R. Adult leukemia and proximity-based surrogates for exposure to Pilgrim plant's nuclear emissions. *Arch Environ Health* 51:266-274 (1996).

Milligan, M. Potential Carbon Emissions Reductions from Wind by 2030. Kutscher, C. (ed.) *Tackling Climate Change in the U.S.* American Solar Energy Society. Pp22-24, 103-112 (Jan 2007).

Milly, P.C.D., Wetherald, R.T., Dunne, K. A., Delworth, T. L. Increasing risk of great floods in a changing climate. *Nature* 415:514-515 (2002).

MOD: Ministry of Defence, U.K. guidance to the transportation, storage, handling and disposal of lithium batteries. *Defence Standard* 61-19, Issue 2 (22 Aug 2003).

Motavalli, J. Is Fear About Climate Change Causing a Nuclear Renaissance? *E Magazine* (9 July, 2007).

Mufson, S., Harden, B. Coal can't fill world's burning appetite. *The Washington Post* (20 Mar 2008).

Myhrvold, A. Olesen, E. Pupil's health and performance due to renovation of schools, in Healthy Buildings/IAQ (1997)

NAS/NRC. Committee to Review and Assess the Health and Productivity Benefits of Green Schools, Review and assessment of the health and productivity benefits of green schools: an interim report. NAS, Washington, DC (2006).

Narmonevaa, D.A., Onib, O., Sieminskib, A.L., Zhangb, S., Gertlerc, J.P., Kammb, R. D., Lee, R.T. Self-assembling short oligopeptides and the promotion of angiogenesis. *Biomaterials* 26:4837–4846 (2005).

Naylor, R., Steinfeld, H., Falcon, W., et al. Losing the links between livestock and land. *Science* 310:1621-1622 (2005).

NEFa: National Energy Foundation. Passive Solar Energy. Version 2 (2001).

NEFb: New Energy Finance. Review of 2007: new investment in clean energy surges past \$100bn (28 Dec 2007).

Nierenberg, D. World Bank Discusses Livestock, Part 2: Meeting the Demand for Meat. (2007). <http://www.worldwatch.org/node/5099>

Nierenberg, M., Garcés, L. Industrial Animal Agriculture – The Next Global Health Crisis? World Society for the Protection of Animals (2005). <http://www.wspafarmwatch.org/hhenvhealth.html>.

NIRS: Nuclear Information and Resource Service. Report on Earthquake Damage to Japan's Kashiwazaki-Kariwa Nuclear Power Facility (19 July 2007).

NPC: National Petroleum Council. Facing the Hard Truths about Energy A comprehensive view to 2030 of global oil and natural gas. Washington, DC (July 2007).

NRC: National Research Council. Transportation Research Board. Potential Impacts of Climate Change on U.S. Transportation. Committee on Climate Change and U.S. Transportation, Division on Earth and Life Studies, Transportation Research Board Special Report 290 (2008).

Oberdorster, E. Manufactured nanomaterials (fullerenes, C₆₀) induce oxidative stress in the brain of juvenile largemouth bass. *Environmental Health Perspectives* 112:1058-1062 (2004).

Oberdorster, E. Principles for characterizing the potential human health effects from exposure to nanomaterials: elements of screening strategy. *Particle and Fibre Toxicology* 2: 8 (2005).

- Oberdorster, G., Oberdorster, E., Oberdorster, J. Nanotoxicology: An emerging discipline evolving from studies of ultrafine particles. *Environmental Health Perspectives* 113(7):823-839 (2005).
- Ogino, A., Orito, H., Shimada, K., Hirooka, H. Evaluating environmental impacts of the Japanese beef cow-calf system by the life cycle assessment method. *Animal Science Journal* 78(4):424-432 (2007).
- Overpeck, J.T., Otto-Bliesner, B.L., Miller, G.H., Muhs, D.R., Alley, R.B., Kiehl, J.T., Paleoclimatic evidence for future ice-sheet instability and rapid sea-level rise, *Science*. 311:1747-1750 (2006).
- Parry, M.L., Canziani, O.F., Palutikof, J.P., van der Linden, P.J., Hanson, C.E. (eds.). IPCC Summary for Policymakers. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, Cambridge University Press, Cambridge, UK (2007).
- Pacala, S., Socolow, R. Stabilization wedges: solving the climate problem for the next 50 years with current technologies. *Science* 305:968-971 (2004).
- Pauley, S.M. Lighting for the human circadian clock: recent research indicates that lighting has become a public health issue. *Medical Hypotheses* 63(4):588-596 (2004).
- Patzek, T. The Real Biofuels Cycle. Department of Civil and Environmental Engineering, University of California, Berkeley (26 Mar 2004).
- Perceland, B.A. State is thinking big on energy. *The Boston Globe* (24 Feb 2008).
- PEW: Pew Charitable Trusts. Putting Meat on the Table: Industrial Farm Animal Production in America. The Pew Charitable Trusts and Johns Hopkins Bloomberg School of Public Health. A Report of the Pew Commission on Industrial Farm Animal Production (2008). http://www.ncifap.org/_images/PCIFAP%20FINAL%20REPORT.pdf
- Piao, S., Clais, P., Friedlingstein, P., et al. Net carbon dioxide losses of northern ecosystems in response to autumn warming. *Nature* 451:49-52 (2008).
- Pimentel, D., Patzek, T.W. Ethanol production using corn, switchgrass and wood; biodiesel production using soybean and sunflower. *Natural Resources Research* 14:65-76, (2005).
- Pinkerton, L.E., et al. Mortality among a cohort of uranium miners: An update. *Occ Environ Med* 61:57-64 (2004).
- Pobel, D., Viel, J-F. Case-control study of leukemia among young people near the La

Hague nuclear reprocessing plant: the environmental hypothesis revisited. *Br Med J* 314:101 (1997).

Pollan, M. *In Defense of Food: The Myth of Nutrition and the Pleasures of Eating*. Penguin Press (2007).

Poland, C.A., Duffin, R. Kinloch, I., Maynard, A., Wallace, W.A.H., Seaton, A., Stone, V., Brown, S., MacNee, W., Donaldson, K. Carbon nanotubes introduced into the abdominal cavity of mice show asbestos-like pathogenicity in a pilot study. *Nature Nanotechnology* (Pub online: 20 May 2008) | doi:10.1038/nnano.2008.111.

Prance, G.T. The economics of storing carbon. *The American Prospect* (quoting Schwartzman, S., Moutinho, P.) (Sept 2007).

Raguauskas, A.J., Williams, C.K., Davison, B.H. et al. The path forward for biofuels and biomaterials. *Science* 311: 484-489 (2006).

Ramankutty, N., Foley, J.A. Estimating historical changes in global land cover: Croplands from 1700 to 1992. *Global Biogeochemical Cycles* 13: 997-1027 (1999).

Ramanathan, V., Ramana, M.V., Roberts, G., Kim, D., Corrigan, C., Chung, C., Winker, D. Warming trends in Asia amplified by brown cloud solar absorption. *Nature* 448:575–578 (2007).

Ramanathan, V., Carmichael, G. Global and regional climate changes due to black carbon. *Nature Geoscience* 1:221-227 (2008).

Reicosky, D.C. Effects of conservation tillage on soil organic carbon dynamics: field experiments in the US corn belt. Pp 481-485. In: D.E. Stott, R.H. Mohtar, and G.C. Steinhardt (eds.) *Selected Papers from the 10th International Soil Conservation Meeting, May 24-29, 1999, Perdue Univ. and the USDA-ARS National Soil Erosion Research Lab* (2001).

Renard, F., Gundersen, E., Hellmann, R., Collombet, M. and Y. Le Guen. Numerical Modeling of the Effect of Carbon Dioxide Sequestration on the Rate of Pressure Solution Creep in Limestone: Preliminary Results. Copyright © 2005, Institut français du pétrole. *Oil & Gas Science and Technology – Rev. IFP*, 60, 381-399 (2005).

Reynolds, J. Wave Energy Generator Unveiled. *The Scotsman* (24 Feb 2004).
<http://eecs.oregonstate.edu/msrf/images/Overview%20of%20Wave%20Energy%20Activities%20at%20OSU.pdf>

Rice, G., Hammitt, J. Economic Valuation of Human Health Benefits of Controlling Mercury Emissions from U.S. Coal-Fired Power Plants. *Harvard Center for Risk Analysis* (Feb 2005).

Roach, J. Gulf of Mexico "Dead Zone" is size of New Jersey. National Geographic News (25 May 2005).

Roco, M.C. International perspective on government nanotechnology funding in 2005. Journal of Nanoparticle Research 7(6): 707–712 (2005).

Roe, G.H., Baker, M.B. Why is climate sensitivity so unpredictable? Science 318:629 (2007).

Rogers, C.A., Wayne, P.M., Macklin, E.A., et al. Interaction of the Onset and Elevated Atmospheric CO₂ on Ragweed (*Ambrosia artemisiifolia* L.) Pollen Production. Environmental Health Perspectives. doi:10.1289/ehp.8549 (2006).

Roscoe, R.J., et al. Mortality among Navajo uranium miners. Am J Public Health 85:535-540 (1995).

Rose, J.B., Epstein PR, Lipp EK, Sherman BH, Bernard SM, Patz JA. Climate variability and change in the United States: potential impacts on water and foodborne diseases caused by microbiologic agents. Environmental Health Perspectives. 109 (suppl 2): 211–221 (2001).

Rosenthal, E. New trend in biofuels has new risks. New York Times (21 May 2008).

Running, S.W. Is global warming causing more, larger wildfires? Science 313:927-928 (2006).

Ryman-Rasmussen, J.P., Riviere, J.E., Monteiro-Riviere, N.A. Penetration of Intact Skin by Quantum Dots with Diverse Physicochemical Properties. Toxicological Sciences 91(1):159-165 (2006).

Sabine, C.L., Feely, R.A., Gruber, N., Key, R.M., Lee, K., Bullister, J.L., Wanninkhof, R., Wong, C. S., Wallace, D.W.R., Tilbrook, B., Millero, F.J., Peng, T.-H., Kozyr, A., Ono, T., Rios, A.F., The oceanic sink for anthropogenic CO₂. Science 305:367 (2004).

Sale, M.J., et al. USDOE Hydropower Program. Annual Report for FY 2001, U.S. Department of Energy (Apr 2002).

Schar, C., Luigi-Vidale, P., Luthi, D., et al. The role of increasing temperature variability in European summer heatwaves. Nature 427:332–36 (2004).

Schmidt, K. Green Nanotechnology: It's Easier Than You Think. Nanotechnology Today (Apr 2007).

Schwartz, J. Taking people power to a new level. The New York Times (8 Feb 2008).

Searchinger, T., Heimlich, R. R. Houghton, A., Dong, F., Elobeid, A., Fabiosa, J., Tokgoz, S., Hayes, D., Yu, T-H. Use of U.S. croplands for biofuels increases

- greenhouse gases through emissions from land use change *Science* 319:1238-1240 (2008).
- Seppanen, O., W.J. Fisk, and Q.H. Lei, Effect of temperature on task performance in office environment, in 5th International Conference on Cold Climate Heating, Ventilating, and Air Conditioning. Moscow, Russia (2005).
- Service, RS. Study Fingers Soot as a Major Player in Global Warming. *Science* 319: 1745 (2008).
- Shannon, M.A., Bohn, P. W. Elimelech, M. Georgiadis, J.G., Mariñas, B.J. & A. M. Mayes. Science and technology for water purification in the coming decades. *Nature* 420: 301-310 (2008).
- Shaughnessy, R.J., et al., A preliminary study on the association between ventilation rates in classrooms and student performance. *Indoor Air* 16(5):465-468 (2006).
- Siegel, J. Green Chip Review, Angel Publishing, 1012 Morton St, Baltimore, MD: <http://www.greenchipstocks.com> (accessed June 2008).
- Sigurdarson, S.T., Kline, J.N. School proximity to concentrated animal feeding operations and prevalence of asthma in students. *Chest* 129:1486-1491 (2006).
- Simmons, M.R. International Workshop on Oil Depletion: Uppsala, Sweden May 23, 2002 Energy Exploration & Exploitation, Multi-Science Publishing Co Ltd l. 20, no. 6, 437-443(7) (1 December 2002).
- Simmons, P., Goldstein, N., Kaufman, S.M., Themelis, N.J., Thompson, Jr., V. The state of garbage in America. *BioCycle* 47 (4):26-43 (2006).
- Smil V. Feeding the World. Cambridge: MIT Press, Cambridge, MA. Pp152-160 (2000).
- Smil V. Enriching the Earth: Fritz Haber, Carl Bosch, and the Transformation of World Food Production. Cambridge: MIT Press, Cambridge, MA. Pp165 (2001).
- Smith, P., Powlson, D., Glendining, M., Smith, J. Preliminary estimates of the potential for carbon mitigation in European soils through no-till farming. *Global Change Biology*. 4:679-685 (1998).
- So, H.B., Dalal, R.C., Chan, K.Y., Menzies, N.M., Freebairn, D.M. Potential of conservation tillage to reduce carbon dioxide emission in Australian soils. Pages 821-826 in: D.E. Stott, RH Mohtar, and GC Steinhardt (eds.) 2001. Sustaining the Global Farm. Selected Papers from the 10th international soil conservation organization meeting held May 24-29, 1999 at Purdue University and the USDA-ARS National Soil Erosion Research Laboratory (2001).

Solomon, S.D., Qin, M., Manning, Z., Chen, M., Marquis, K.B., Averyt, M., Tignor, Miller, H.L. (eds.) IPCC Summary for Policymakers. In: Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA (2007).

Spokas, K., Bogner, J., Chanton, J. P., Morcet, M., Aran, C., Graff, C., Moreau-LeGolvan, Y., Hebe, I. Methane mass balance at three landfill sites: What is the efficiency of capture by gas collection systems? Waste Management (29 July 2005).

Steinfeld, H., Gerber, P., Wassenaar, T., Castel, V., Rosales, M., de Haan, C. Livestock's Long Shadow: Environmental Issues and Options. Rome: Food and Agriculture Organization (2006).

Stern, N. Stern Review on the Economics of Climate Change. HM Treasury, Cambridge University Press, The Edinburgh Building, Cambridge, UK (2006).

Stone, R. Can palm oil plantations come clean? Science 317:1491 (2007).

Storck, A.B. More farms find unlikely power source: (30 July 2007) <http://www.manure.Meatingplace.com>.

Stott, D.E., Mohtar, R.H., Steinhardt, G.C. (eds.) Sustaining the Global Farm. Selected papers from the 10th international soil conservation organization meeting held May 24-29, 1999 at Purdue University and the USDA-ARS National Soil Erosion Research Lab (2001).

Stringer, J., Horton, L. Basic research needs to assure a secure energy future. Oak Ridge National Laboratory, Oak Ridge, Tennessee (2003).

Susandi, A., Tol, R.S. J. The State of the Forest, Indonesia, FWI, WRI, GFW, 2002; environmental defense; In: Sathaye, J., et al., GCOMAP model. Working paper Impact of international emission reduction on energy and forestry sector of Indonesia (2004).

Swisher, J.N. Potential Carbon Emissions Reductions from Overall Energy Efficiency by 2030. Tracking Climate Change in the U.S. American Solar Energy Society (Jan 2007).

Tamminen, T. Lives Per Gallon: The True Cost of Our Oil Addiction. Island Press, Washington, DC (2006).

Tester, J., Anderson, B.J., Batchelor, A.S., Blackwell, D.D., DiPippo, R. Drake, E.M., Garnish, J., Livesay, B., Moore, M.C., Nichols, K., Petty, S., Toksöz, M.N., Veatch, R.W. The Future of Geothermal Energy—Impact of Enhanced Geothermal Systems (EGS) on the United States in the 21st Century. Massachusetts Institute of Technology, Cambridge, MA (2006).

Tester, J., Vorum, M. Potential Carbon Emissions Reductions from Geothermal Power

by 2030. Tackling Climate Change in the US. Pp146-162 (Jan 2007).

Thorne, P.S. Environmental health impacts of concentrated animal feeding operations: anticipating hazards – searching for solutions. *Environmental Health Perspectives* 115:296-7 (2007). <http://www.ehponline.org/members/2006/8831/8831.html>.

Tilman, D., P. B. Reich, J. Knops, D. Wedin, T. Mielke and C. Lehman. Diversity and productivity in a long-term grassland experiment. *Science* 294:843-845 (2001).

Tilmes, S., Müller, R., Salawitch, R. The sensitivity of polar ozone depletion to proposed geoengineering schemes. *Science* 320:1201-1204 (2008).

Tilman, D., Hill, J., Lehman, C. Carbon-negative biofuels from low-input high-diversity grassland biomass. *Science* 314:1598–1600 (2006).

Tollefson, L., Fedorka-Cray, P.J., Angulo, F.J. Public health aspects of antibiotic resistance monitoring in the USA. *Acta. Vet. Scand. Suppl.* 92:67-75 (1999).

Tollefson, J. Carbon burial buried. *Nature* 451: 612-613 (7 Feb 2008a).

Tollefson, J. Natural gas back in favour with US power companies. *Nature* 451:753 (14 Feb 2008b).

Townsend, A.R., Howarth, R.W., Bazzaz, F.A., Booth, M.S., Cleveland, C.C., Collinge, S.K., Dobson, A.P., Epstein, P.R., Holland, E.A., Keeney, D.R., Mallin, M.A., Rogers, C.A., Wayne, P., Wolfe, A.H. Human health effects of a changing global nitrogen cycle. *Frontiers in Ecological Environment* 1:240-246 (2003).

Treseder, K.K., Egerton-Warburton, L.M., Allen, M.F., Cheng, Y., Oechel, W.C. Alteration of soil carbon pools and communities of mycorrhizal fungi in chaparral exposed to elevated carbon dioxide. *Ecosystems* 6: 786-796 (2003).

Tuvikene, A. Oil Shale Processing as a Source of Aquatic Pollution: Monitoring of the Biologic Effects in Caged and Feral Freshwater Fish. *Environmental Health Perspectives* 107 (9): 745-752. United States' National Institute of Environmental Health Sciences (1999).

UK Royal Society. The Royal Society and the Royal Academy of Engineering. Nanoscience and Nanotechnologies: Opportunities and Uncertainties. 2004. *Chemical & Engineering News* 82:14 (5 Apr 2004).

United Nations Foundation / Sigma Xi, *Confronting Climate Change: Avoiding the Unmanageable and Managing the Unavoidable*, Scientific Expert Group on Climate Change and Sustainable Development (Peter Raven, Rosina Bierbaum, John P. Holdren, Michael MacCracken, Richard Moss, and 13 others from 11 countries) (Released 27 Feb 2007). <http://www.unfoundation.org/SEG/>

USDOE: U.S. Department of Energy. Passive Solar Design: Technology Fact Sheet. Office of Building Technology State and Community Programs. Energy Efficiency and Renewable Energy (Dec 2000).

_____ Research, Development, Regulatory and Market Introduction Plan: Planned Program Activities for 2006- 2011, Energy Efficiency and Renewable Energy, Building Technologies Program Multi-Year Program Plan (2005).

Unmacht, E. Faced with soaring oil prices, Indonesia turns to biodiesel. The Christian Science Monitor (5 July 2006).

USEIA: US Energy Information Administration. Annual Energy Outlook (2007).

Vattenfall: Climate Map 2030: Mission Possible: How We'll Get Rid of 26.7 Billion Tonnes of Emissions by 2030 and Halt Global Warming. Major mapping sector-by-sector, region-by-region. Vattenfall, Stockholm, Sweden (Jan 2006).

Verge, X.P.C., De Kimpe, C., and Desjardins, R.L. Agricultural production, greenhouse gas emissions and mitigation potential. *Agricultural and Forest Meteorology* 142:255-269 (2007).

Wargoeki, P., D.P. Wyon, and P.O. Fanger, Productivity is affected by the air quality in offices. In: *Healthy Buildings 2000. SIY Indoor Air Information: Helsinki, Finland* Pp 635-640 (2000).

Wargoeki, P. and D.P. Wyon, The effect of moderately raised classroom temperatures and classroom ventilation rate on the performance of schoolwork by children. *HVAC&R Research* 13(2):193-220 (2007).

Wald, M.L. G.M. buys stake in maker of ethanol from waste. *The New York Times* (14 Jan 2008a).

_____ As nuclear waste languishes, expense to U.S. rises. *The New York Times* (17 Feb 2008b).

_____ Turning glare into watts. *The New York Times* (6 Mar 2008c).

Walker, P., Rhubart-Berg, P., McKenzie, S., Kelling, K., Lawrence, R.S. Public health implications of meat production and consumption. *Public Health Nutrition* 8(4):348-56. (2005).

Watkins, K. Human Development Report 2007/2008: Fighting Climate Change: Human Solidarity in a Divided World. UNDP (Nov 2007).

- Webster, P.J., Holland, G.J., Curry, J.A., Chang, H.-R. Changes in tropical cyclone number, duration, and intensity in a warming Environment. *Science* 309:1844-1846 (2005).
- Wiesner, M.R., Lowry, G.V., Alvarez, P., Dionysiou, D., Bisawas, P. Assessing the risks of manufactured nanomaterials. *Environmental Science & Technology* 40(14): 4336-4345 (2006).
- Wilkinson, P., Smith, K.R., Joffe, M., Haines, A. A global perspective on energy: health effects and injustices. *The Lancet* 370 (9591):965-978 (2007).
- Williams, R.H., Larson, E.D., Jin, H. Synthetic fuels in a world with high oil and carbon prices, prepared for: 8th International Conference on Greenhouse Gas Control Technologies, Trondheim, Norway (9-22 June 2006).
- Windels P, Taverniers I, Depicker A, Van Bockstaele E, De Loose M. Characterisation of the Roundup Ready soybean insert. *European Food Research and Technology* 213:107-112 (2001).
- Wing, S., Wolf, S. Intensive livestock operations, health, and quality of life among Eastern North Carolina residents. *Environmental Health Perspectives* 108(3):233-238. (2000). <http://www.ehponline.org/members/2000/108p233-238wing/108p233.pdf>. 6.
- Wiser, R., Bolinger, M. Balancing Cost and Risk: The Treatment of Renewable Energy in Western Utility Resource Plans, Lawrence Berkeley National Laboratory, Berkeley, CA (2005). <http://eetd.lbl.gov/EA/EMP/reports/58450.pdf>
- Wolf, J., Johnson, N.C., Rowland, D.L., Reich, P. B. Elevated CO₂ and plant species richness impact arbuscular mycorrhizal fungal spore communities. *New Phytol* 157:579-588 (2003).
- Wolfenbarger, L.L., Phifer, P.R. The ecological risks and benefits of genetically engineered plants. *Science* 290:2088-2093 (2000).
- Worell, E., Phylipsen, D., Einstein, D., Martin, N. Energy Use and Energy Intensity of the U.S. Chemical Industry, Ernest Orlando. Lawrence Berkeley National Lab (2000).
- Woynillowicz, D., Severson-Baker, C., Reynolds, M. The Environmental Implications of Canada's Oil Sands Rush. The Pembina Institute Drayton Valley, Alberta, Canada (Nov 2005).
- WHO/FAO/OIE: World Health Organization, Food and Agriculture Organization of the United Nations, and the World Organisation for Animal Health (WHO/FAO/OIE). Expert workshop on non-human antimicrobial usage and antimicrobial resistance, Geneva (1-5 Dec 2003) <http://www.who.int/foodsafety/publications/micro/en/amr.pdf>.

WHO: World Health Organization. Indoor air pollution. World Health Report (2002). <http://www.who.int/indoorair/en/>

Worrell, E., Price, L., Galitsky, C. Emerging energy-efficient technologies in industry: case studies of selected technologies. Lawrence Berkeley National Lab, Berkeley, CA (2004). <http://ies.lbl.gov/iespubs/54828.pdf>

Wu C-t, Morris JR. Genes, genetics, and epigenetics: a correspondence. *Science* 293:1103-1105 (2001).

Xynergy, Inc and SERA Architects. “Green City Buildings: Applying the LEED Rating System,” prepared for the Portland Energy Office (18 June 2000). <http://www.sustainableportland.org/CityLEED.pdf>.

Yardley, J. As most of China celebrates New Years, a scramble continues in coal country. *The New York Times* (9 Feb 2008).

Youngquist, W. Shale Oil--The Elusive Energy: Hubbert Center Newsletter, 98/4, M. King Hubbert Center for Petroleum Supply Studies, Golden, Colorado (1998).

Zeebe, R.E., Zachos, J.C., Caldeira, K., Tyrrell, T. Carbon emissions and acidification. *Science* 321:51-52 (2008).

Zhu, Y., Chen, H., Fan, J., Wang, Y., et al. Crop heterogeneity is a possible solution to the vulnerability of monocultured crops to disease. Both theory and observation indicate that genetic heterogeneity provides greater disease suppression. *Nature* 406:718–722 (2000).

Ziska, L.H., Caulfield, F.A. Rising CO₂ and pollen production of common ragweed (*Ambrosia artemisiifolia*), a known allergy-inducing species: implications for public health. *Australian Journal of Plant Physiology* 27:893–898 (2000).

Ziska, L.H., Sicher Jr, R.C., George, K., Mohan, J.E. Rising carbon dioxide, plant biology public health: Potential impacts on the growth and toxicity of poison ivy (*Toxicodendron radicans*). *Weed Science* 55:288-292 (2007).

Ziska, L.H., George, K., Frenz, D.A. Establishment and persistence of common ragweed (*Ambrosia artemisiifolia* L.) in disturbed soil as a function of an urban-rural macro-environment. *Global Change Biology* 13:266-274 (2007).

Zweibel, K., Mason, J., Fthenakis. A solar grand plan. *Scientific American* 64-73. (Jan 2008).

Agencies/Websites

HEI: Health Effects Institute, reports on air pollution, Cambridge, MA
<http://www.healtheffects.org/>

USEPA: U.S. Environmental Protection Agency. Solid Waste Management and Greenhouse Gases, A Life-Cycle Assessment of Emissions and Sinks. Washington, D.C.:

_____ Office of Solid Waste, EPA530-R-02-006 (2002a).

_____ Solid Waste Management and Greenhouse Gases, A Life-Cycle Assessment of Emissions and Sinks. Washington, D.C.: U.S. EPA, Office of Solid Waste, EPA530-R-02-006 (2002b).

_____ U.S. Environmental Protection Agency, National Pollutant Discharge Elimination System Permit Regulation and Effluent Limitation Guidelines and Standards for Concentrated Animal Feeding Operations (CAFOs); Final Rule, 68 Fed. Reg. 7176, 7180, (12 Feb 2003).

_____ Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2004, USEPA #430-R-06-002

_____ Landfill Gas Emissions Model (LandGEM) Version 3.02 User's Guide, EPA-600/R-05/047 (May 2005a).

_____ EPA. Landfill Gas Emissions Model (LandGEM) Version 3.02 User's Guide, EPA-600/R-05/047 (May 2005b).

_____ Nanotechnology White Paper (2006).

_____ Landfill Methane Outreach Program. LMOP Project Expo (2006).
http://www.epa.gov/lmop/conf/9th/handouts/RoseburgLFOR_handout.pdf.

_____ Health and Environmental Impacts of NOx:
<http://www.epa.gov/air/urbanair/nox/hlth.html>.

_____ Air Toxics from Motor Vehicles: <http://www.epa.gov/otaq/consumer/02-toxic.pdf>.

_____ Next generation / Unconventional Hydropower; Renewable Energy Modeling Workshop on Hydroelectric Power (10 May 2005).
http://www.epa.gov/cleanenergy/pdf/smith_may10.pdf

_____ Air Toxics from Motor Vehicles. <http://www.epa.gov/otaq/consumer/02-toxic.pdf>.

_____ Waste Reduction Model (WARM):
http://www.epa.gov/climatechange/wycd/waste/calculators/Warm_home.html.

_____ Solid Waste Hierarchy <http://www.epa.gov/epaoswer/non-hw/muncpl/faq.htm#1>

_____ EPA helps farmers turn livestock waste into wealth (18 Jan 2007).
<http://yosemite.epa.gov/opa/admpress.nsf/756fc9115d0af011852572a00065593e/c9f1eb2189c4600d852572670065a77d!OpenDocument>.

_____ Clean Air Mercury Rule (2004). <http://www.epa.gov/mercuryrule/basic.htm>

USDA: A Focus on Animal Manure Management. United States Department of Agriculture, 2005: http://fsrio.nal.usda.gov/document_fsheetsheet.php?product_id=63

USDOE: U.S. Department of Energy. Built in Electric Field. In: Energy Efficiency and Renewable Energy: Solar Energy Technologies Program; 2006a.

_____ The Crystalline Silicon Solar Cell. In: Energy Efficiency and Renewable Energy: Solar Energy Technologies Program (2006b).

_____ The Photoelectric Effect. In: Energy Efficiency and Renewable Energy: Solar Energy Technologies Program (2006c).

_____ Doping Silicon to Create n-Type and p-Type Silicon. In: Energy Efficiency and Renewable Energy: Solar Energy Technologies Program (2006d).

_____ Building Technologies Program: Solid State Lighting.
<http://www.netl.doe.gov/ssl/whyinvest.html>

_____ Synthetic fuels:
http://www.fe.doe.gov/aboutus/history/syntheticfuels_history.html

_____ <http://www.energy.gov/4926.htm>.

EERE: USDOE Energy Efficiency and Renewable Energy Web Passive Solar Design.
<http://www.eere.energy.gov/buildings/info/design/integratedbuilding/passive.html>

USGBC: U.S. Green Building council (2007).
<http://www.usgbc.org/DisplayPage.aspx?CategoryID=19>.

USGS: U.S. Geological Survey Fact Sheet 172-196: <http://pubs.usgs.gov/fs/fs172-96/>.

Other websites:

ALA: American Lung Association. Health Effects of Ozone and Particle Pollution (2007). http://lungaction.org/reports/sota07_heffects.html

American Wind Energy Association: <http://www.awea.org/>

Building for Sustainability Report: Six Scenarios for The David and Lucile Packard Foundation, Los Altos Project (October 2002).
<http://hpsarch.com/TitlePageSpecial/2002-Report.pdf>.

Anon. Geothermal Heat Pumps:
<http://www.energyguide.com/library/EnergyLibraryTopic.asp?bid=austin&prd=10&TID=17284&SubjectID=8367#design> (2007).

Fuel cells

<http://www.toolbase.org/Technology-Inventory/Electrical-Electronics/chp-fuel-cell>

<http://hyperphysics.phy-astr.gsu.edu/Hbase/thermo/electrol.html>

<http://www.fuelcellworks.com/Justthebasics.html>

HEI: Health Effects institute: <http://www.healtheffects.org/>

Installation of the world's first commercial tidal current power system confirmed:
http://www.marineturbines.com/mct_text_files/070606.pdf July, 2007.

KNBC Website. Coroner: Carbon Dioxide Killed Men on Mammoth Mountain:
<http://www.knbc.com/news/8516441/detail.html> (6 Apr 2006).

MIT: Massachusetts Institute of technology. <http://web.mit.edu/newsoffice/2006/battery-hybrid.html>.

MSNBC. N.Y.'s East River becomes a green zone. Underwater turbines create electricity from the tides. <http://www.msnbc.msn.com/id/18096246/>.

Next American City. <http://www.americancity.org/page.php?id=5>.

Peabody Energy. <http://www.peabodyenergy.com/>

Pollution Locator: Toxic Chemical Releases. Scorecard (2005)
<http://www.scorecard.org/env-releases/us-map.tcl>.

Powering the Smart Grid. Navigating Our Future.
<http://www.navigatingourfuture.org/vol-1-issue-4/powering-the-smart-grid.html?Itemid=10021>.

Sandia National Laboratories: National Solar Thermal Test Facility:
http://www.sandia.gov/Renewable_Energy/solarthermal/NSTTF/salt.htm.

Uranium Information Center website. <http://www.uic.com.au/nip19.htm>.

http://www.europarl.europa.eu/news/expert/infopress_page/064-25907-099-04-15-911-20080407IPR25906-08-04-2008-2008-false/default_en.htm

<http://www.ipcc.ch/pdf/assessment-report/ar4/wg3/ar4-wg3-chapter10.pdf>

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