

REFERENCES

- Aitken, D. (2003).** *Transitioning to a Renewable Energy Future*. White Paper, International SolarEnergy Society, Freiburg, Germany, 55 pp. Available at: www.ises.org/shortcut.nsf/to/wp.
- Akimoto, K., F. Sano, J. Oda, T. Homma, U.K. Rout, and T. Tomoda (2008).** Global emission reductions through a sectoral intensity target scheme. *Climate Policy*, **8**(Supplement), pp. S46-S59.
- Amann, M. (2008).** *GAINS ASIA Scenarios for Cost-Effective Control of Air Pollution and Greenhouse Gases in China*. International Institute for Applied Systems Analysis, Laxenburg, Austria
- Anthoff, D. (2007).** *Marginal external damage costs inventory of greenhouse gas emissions*. Delivery No. 5.4 - RS 1b, New Energy Externalities Developments for Sustainability, Rome, Italy.
- Awerbuch, S. (2006).** Portfolio-based electricity generation planning: Policy implications for renewables and energy security. *Mitigation and Adaptation Strategies for Global Change*, **11**(3), pp. 693-710.
- Azar, C., K. Lindgren, E. Larson, and K. Möllersten (2006).** Carbon capture and storage from fossil fuels and biomass – Costs and potential role in stabilizing the atmosphere. *Climatic Change*, **74**(1), pp. 47-79.
- Bailis, R., M. Ezzati, and D.M. Kammen (2005).** Mortality and greenhouse gas impacts of biomass and petroleum energy futures in Africa. *Science*, **308**(5718), pp. 98-103.
- Baker, E., L. Clarke, and E. Shittu (2008).** Technical change and the marginal cost of abatement. *Energy Economics*, **30**(6), pp. 2799-2816.
- Barker, T., I. Bashmakov, A. Alharthi, M. Amann, L. Cifuentes, J. Drexhage, M. Duan, O. Edenhofer, B. Flannery, M. Grubb, M. Hoogwijk, F.I. Ibitoye, C.J. Jepma, W.A. Pizer, and K. Yamaji (2007).** Mitigation from a cross-sectoral perspective. In: *Climate Change 2007: Mitigation of Climate Change. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. B. Metz, O.R. Davidson, P.R. Bosch, R. Dave, and L.A. Meyer (eds.), Cambridge University Press, pp. 619-690.
- Barker, T., H. Pun, J. Köhler, R. Warren, and S. Winne (2006).** Decarbonizing the global economy with induced technological change: Scenarios to 2100 using E3MG. *Energy Journal*, **27**(Special Issue 1), pp. 241-258.
- Bergmann, A., M. Hanley, and R. Wright (2006).** Valuing the attributes of renewable energy investments. *Energy Policy*, **34**(9), pp. 1004-1014.
- Berry, T., and M. Jaccard (2001).** The renewable portfolio standard: design considerations and an implementation survey. *Energy Policy*, **29**(4), pp. 263-277.
- Black & Veatch Corporation (2007).** *Arizona Renewable Energy Assessment. Final Report*. Black & Veatch Corporation, Lamar, Kansas.
- Bolinger, M., R. Wiser, and W. Golove (2006).** Accounting for fuel price risk when comparing renewable to gas-fired generation: the role of forward natural gas prices. *Energy Policy*, **34**(6), pp. 706-720.
- Bollen, J., B. van der Zwaan, C. Brink, and H. Erens (2009).** Local air pollution and global climate change: A combined cost-benefit analysis. *Resource and Energy Economics*, **31**, pp.161-181.

- Bosetti, V., C. Carraro, and M. Tavoni (2009).** Climate change mitigation strategies in fast-growing countries: The benefits of early action. *Energy Economics*, **31**(Supplement 2), pp. S144-S151.
- Burgherr, P., and S. Hirschberg (2008).** A comparative analysis of accident risks in fossil, hydro and nuclear energy chains. *Human and Ecological Risk Assessment*, **14**, pp. 947-973.
- Calvin, K., J. Edmonds, B. Bond-Lamberty, L. Clarke, S.H. Kim, P. Kyle, S.J. Smith, A. Thomson, and M. Wise (2009).** 2.6: Limiting climate change to 450 ppm CO₂ equivalent in the 21st century. *Energy Economics*, **31**(Supplement 2), pp. S107-S120.
- Carlsmith, R.S., W.U. Chandler, J.E. McMahon, and D.J. Santini (1990).** *Energy Efficiency: How Far can We Go?* ORNL/TM-11441, Oak Ridge National Laboratory, Oak Ridge, TN, USA, 83 pp.
- Carpenter, S.R., P.L. Pingali, E.M. Bennet, and M.B. Zurek (eds.) (2005).** *Ecosystems and Human Wellbeing: Scenarios*. Island Press, Chicago, IL, USA, 561 pp.
- CBI (2007).** *Climate Change: Everyone's Business*. Confederation of British Industry ClimateChange Task Force, London, UK.
- Changliang, X., and S. Zhanfeng (2009).** Wind energy in China: Current scenario and future perspectives. *Renewable and Sustainable Energy Reviews*, **13**(8), pp. 1966-1974.
- Chen, W. (2005).** The Costs of Mitigating Carbon Emissions in China: Findings from ChinaMARKALMACRO modeling. *Energy Policy*, **33**, pp. 885-896.
- Chen, C., R. Wiser, and M. Bolinger (2007).** *Weighing the Costs and Benefits of State Renewables Portfolio Standards: A Comparative Analysis of State-Level Policy Impact Projections*. LBNL-61580, Ernest Orlando Lawrence Berkeley National Laboratory, Berkeley, CA, USA, 71 pp.
- Clarke, L., J. Edmonds, H. Jacoby, H. Pitcher, J. Reilly, and R. Richels (2007).** *Scenarios of Greenhouse Gas Emissions and Atmospheric Concentrations. Sub-report 2.1A of Synthesis and Assessment Product 2.1*. U.S. Department of Energy, Office of Biological and Environmental Research, Washington, DC, USA, 154 pp.
- Clarke, L., J.P. Weyant, and J. Edmonds (2008).** On the sources of technological change: what do the models assume. *Energy Economics*, **30**(2), pp. 409-424.
- Clarke, L., J. Edmonds, V. Krey, R. Richels, S. Rose, and M. Tavoni (2009).** International climate policy architectures: Overview of the EMF 22 International Scenarios. *Energy Economics*, **31**(Supplement 2), pp. 64-81.
- Committee on Climate Change (2008).** *Building a Low-Carbon Economy – The UK's Contribution to Tackling Climate Change*. The Stationary Office, Norwich, UK. Available at: www.theccc.org.uk/reports/building-a-low-carbon-economy.
- Committee on Health (2010).** *Hidden Costs of Energy: Unpriced Consequences of Energy Production and Use*. Committee on Health, Environmental, and Other External Costs and Benefits of Energy Production and Consumption, National Research Council, National Academies Press, Atlanta, GA, USA, 506 pp.
- Creyts, J., A. Derkach, S. Nyquist, K. Ostrowski, and J. Stephenson (2007).** *Reducing U.S. Greenhouse Gas Emissions: How Much at What Cost?* McKinsey & Company, USA, 83 pp.
- Curtright, A.E., M.G. Morgan, and D.W. Keith (2008).** Expert assessments of future photovoltaic technologies. *Environmental Science & Technology*, **42**(24), pp. 9031-9038.

- da Costa, M.M., C. Cohen, and R. Schaeffer (2007).** Social features of energy production and use in Brazil: Goals for a sustainable energy future. *Natural Resources Forum*, **31**(1), pp. 11-20.
- Dasgupta, P., K.-G. Mäler, and S. Barrett (2000).** *Intergenerational Equity, Social Discount Rates and Global Warming*. University of Cambridge, Cambridge, UK.
- de Vries, B.J.M., D.P. van Vuuren, and M.M. Hoogwijk (2007).** Renewable energy sources: Their global potential for the first-half of the 21st century at a global level: An integrated approach. *Energy Policy*, **35**, pp. 2590-2610.
- den Elzen, M., N. Höhne, and J. van Vliet (2009).** Analysing comparable greenhouse gas mitigation efforts for Annex I countries. *Energy Policy*, **37**, pp. 4114-4131.
- Dietz, S., and N. Stern (2008).** Why economic analysis supports strong action on climate change: A response to the Stern review's critics. *Review of Environmental Economics and Policy*, **2**(1), pp. 94-113.
- Dornburg, V., J. van Dam, and A. Faaij (2007).** Estimating GHG emission mitigation supply curves of large-scale biomass use on a country level. *Biomass and Bioenergy*, **31**(1), pp. 46-65.
- Downing, T., D. Anthoff, R. Butterfield, M. Ceronisky, M. Grubb, J. Guo, C. Hepburn, C. Hope, A. Hunt, A. Li, A. Markandya, S. Moss, A. Nyong, R. Tol, and P. Watkiss (2005).** *Social Cost of Carbon: A Closer Look at Uncertainty*. Stockholm Environment Institute, Oxford, UK.
- Durstewitz, M., and M. Hoppe-Klipper (1999).** Wind energy experience curve for the German "250 MW Wind Program". In: *IEA International Workshop on Experience Curves for Policy Making - The Case of Energy Technologies*. Stuttgart, Germany, 10-11 May 1999. Available at: www.iset.uni-kassel.de/abt/FB-I/publication/99-05-10_exp_curves_ia.pdf.
- ECN (2004).** *Learning from the Sun: Final Report of the Photos Project*. Energy Research Center of the Netherlands (ECN), Petten, The Netherlands.
- Edenhofer, O., C. Carraro, J. Köhler, and M. Grubb (guest eds.) (2006).** Endogenous technological change and the economics of atmospheric stabilization. *Energy Journal*, **27**(Special Issue 1), 284 pp.
- Edenhofer, O., C. Carraro, J.-C. Hourcade, K. Neuhoff, G. Luderer, C. Flachsland, M. Jakob, A. Popp, J. Steckel, J. Strophscheim, N. Bauer, S. Brunner, M. Leimbach, H. Lotze-Campen, V. Bosetti, E.d. Cian, M. Tavoni, O. Sassi, H. Waisman, R. Crassous-Doerfler, S. Monjon, S. Dröge, H.v. Essen, P.d. Ríó, and A. Türk (2009).** *The Economics of Decarbonization – Report of the RECIPE Project*. Potsdam Institute for Climate Impact Research, Potsdam, Germany.
- Edenhofer, O., B. Knopf, T. Barker, L. Baumstark, E. Bellevrat, B. Chateau, P. Criqui, M. Isaac, A. Kitous, S. Kypreos, M. Leimbach, K. Lessmann, B. Magne, Å. Scriciu, H. Turton, and D.P. Van Vuuren (2010).** The economics of low stabilization: Model comparison of mitigation strategies and costs. *Energy Journal*, **31**(Special Issue), pp. 11-48.
- Edwards, R., S. Szekeres, F. Neuwahl, and V. Mahieu (2008).** *Biofuels in the European Context: Facts, Uncertainties and Recommendations*. JRC Institute for Energy, Petten, The Netherlands, 30 pp.
- EEA (2007).** *Greenhouse gas emission trends and projections in Europe 2007 – Country profile: Poland*. European Energy Agency, Brussels, Belgium.
- EEA (2009).** *Europe's onshore and offshore wind energy potential: An assessment of environmental and economic constraints*. European Environment Agency, Copenhagen, Denmark.

- EIA (2009).** *Annual Energy Outlook 2009 with Projections to 2030*. Energy Information Administration, Washington, DC, USA.
- Enermodal (1999).** *Cost Reduction Study for Solar Thermal Power Plants: Final Report*. Enermodal Engineering Limited, Kitchener, ON, Canada.
- Enviros Consulting Ltd. (2005).** *The Costs of Supplying Renewable Energy*. Enviro Consulting Ltd., London, UK.
- EPIA (2008).** *Solar Generation*. European Photovoltaic Industry Association (EPIA), Brussels, Belgium.
- EPIA (2010).** *Global Market Outlook for Photovoltaics until 2014*. European Photovoltaic Industry Association (EPIA), Brussels, Belgium, 8 pp.
- ERI (2009).** *2050 China Energy and CO₂ Emissions Report (CEACER)*. Energy Research Institute, Beijing: Science Press. In Chinese. As cited in: *China's Energy and Carbon Emissions Outlook to 2050*, N. Zhou and D. Fridley (2011). Lawrence Berkeley National Laboratory.
- EWEA (2009).** *Wind Energy, the Facts*. European Wind Energy Association (EWEA), Brussels, Belgium.
- Fearnside, P.M. (1999).** Social impacts of Brazil's Tucuruí Dam. *Environmental Management*, **24**(4), pp. 483-495.
- Fearnside, P.M. (2005).** Brazil's Samuel Dam: Lessons for hydroelectric development policy and the environment in Amazonia. *Environmental Management*, **35**(1), pp. 1-19.
- Fellows, A. (2000).** *The Potential of Wind Energy to Reduce Carbon Dioxide Emissions*. Garrad Hassan, Glasgow, Scotland.
- Feroli, F., K. Schoots, and B.C.C. Van der Zwaan (2009).** Use and limitations of learning curves for energy technology policy: A component-learning hypothesis. *Energy Policy*, **37**, pp. 2525-2535.
- Fisher, B.S., N. Nakicenovic, K. Alfsen, J. Corfee Morlot, F. de la Chesnaye, J.-C. Hourcade, K. Jiang, M. Kainuma, E. La Rovere, A. Matysek, A. Rana, K. Riahi, R. Richels, S. Rose, D. van Vuuren, and R. Warren (2007).** Issues related to mitigation in the long term context. In: *Climate Change 2007: Mitigation of Climate Change. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. B. Metz, O.R. Davidson, P.R. Bosch, R. Dave, and L.A. Meyer (eds.), Cambridge University Press, pp. 169-250.
- Fleiter, T., M. Hagemann, S. Hirzel, W. Eichhammer, and M. Wietschel (2009).** Costs and potentials of energy savings in European industry – a critical assessment of the concept of conservation supply curves. In: *Proceedings of ECEEE 2009 Summer Study*, European Council for an Energy Efficient Economy (ed.), La Colle sur Loup, France, 1-6 June 2009, Panel 5, pp. 1261-1272. Available at: www.eceee.org/conference_proceedings/eceee/2009/Panel_5/5.376/.
- Foxon, T.J., R. Gross, A. Chase, J. Howes, A. Arnall, and D. Anderson (2005).** UK innovation systems for new and renewable energy technologies: drivers, barriers and system failures. *Energy Policy*, **33**, pp. 2123-2137.
- Gallagher, P.W., M. Dikeman, J. Fritz, E. Wailes, W. Gauthier, and H. Shapouri (2003).** Supply and social cost estimates for biomass from crop residues in the United States. *Environmental & Resource Economics*, **24**(4), pp. 335-358.
- Gärtner, S. (2008).** *Final Report on Technical Data, Costs and Life Cycle Inventories of Biomass CHP Plants*. Deliverable No. 13.2 – RS 1a, New Energy Externalities Developments for Sustainability, Rome, Italy.

- Goldemberg, J., S. Coelho, P.M. Nastaric, and O. Lucon (2004).** Ethanol learning curve: The Brazilian experience. *Biomass & Bioenergy*, **26**(2004), pp. 301-304.
- González, P.d.R. (2008).** Policy implications of potential conflicts between short-term and long-term efficiency in CO₂ emissions abatement. *Ecological Economics*, **65**, pp. 292-303.
- Gordon, F., L. Garth, T. Eckman, and C. Grist (2008).** *Beyond Energy Supply Curves*. University of California, Davis, CA, USA.
- Groscurth, H.M., A. de Almeida, A. Bauen, F.B. Costa, S.O. Ericson, J. Giegrich, N. von Grabczewski, D.O. Hall, O. Hohmeyer, K. Jorgensen, C. Kern, I. Kuhn, R. Lofstedt, J.D. Mariano, P.M.G. Mariano, N.I. Meyer, P.S. Nielsen, C. Nunes, A. Patyk, G.A. Reinhardt, F. Rosillo-Calle, I. Scrase, and B. Widmann (2000).** Total costs and benefits of biomass in selected regions of the European Union. *Energy*, **25**(11), pp. 1081-1095.
- Gross, R., and P. Heptonstall (2008).** The costs and the impacts of intermittency: An ongoing debate. *Energy Policy*, **36**(2008), pp. 4005-4007.
- Grubb, M., and D. Newbery (2008).** Pricing carbon for electricity generation: national and international dimensions. In: *Delivering a Low Carbon Electricity System: Technologies, Economics and Policy*. M. Grubb, T. Jamasb, and M.G. Pollitt (eds.), Cambridge University Press.
- Grubler, A. (2008).** Energy transitions. In: *Encyclopedia of Earth*. C.J. Cleveland (ed.), Environmental Information Coalition, National Council for Science and the Environment, Washington, DC, USA.
- Gumerman, E., J.G. Koomey, and M.A. Brown (2001).** Strategies for cost-effective carbon reductions: a sensitivity analysis of alternative scenarios. *Energy Policy*, **29**, pp. 1313-1323.
- Gurney, A., H. Ahammad, and M. Ford (2009).** The economics of greenhouse gas mitigation: Insights from illustrative global abatement scenarios modelling. *Energy Economics*, **31**(Supplement 2), pp. S174-S186.
- Hanaoka, T., R. Kawase, M. Kainuma, Y. Matsuoka, H. Ishii, and K. Oka (2006).** *Greenhouse Gas Emissions Scenarios Database and Regional Mitigation Analysis*. National Institute for Environmental Studies (NIES), Tsukuba, Japan, 106 pp.
- Harmon, C. (2000).** *Experience Curves for Photovoltaic Technology*. IR-00-014, International Institute for Applied Systems Analysis, Laxenburg, Austria.
- Heptonstall, P. (2007).** *A Review of Electricity Unit Cost Estimates, Working Paper*. UK Energy Research Centre, London, UK.
- Herzog, H., K. Smekens, P. Dadhich, J. Dooley, Y. Fujii, O. Hohmeyer, and K. Riahi (2005).** Cost and economic potential. In: *IPCC Special Report on Carbon Dioxide Capture and Storage*. B. Metz, O. Davidson, H. de Coninck, M. Loos, and L. Meyer (eds.), Cambridge University Press, pp. 339-362.
- Hettinga, W.G., H.M. Junginger, S.C. Dekker, M. Hoogwijk, A.J. McAloon, and K.B. Hicks (2009).** Understanding the reductions in US corn ethanol production costs: An experience curve approach. *Energy Policy*, **37**(1), pp. 190-203.
- Hill, J., E. Nelson, D. Tilman, S. Polasky, and D. Tiffany (2006).** Environmental, economic, and energetic costs and benefits of biodiesel and ethanol biofuels. *Proceedings of the National Academy of Sciences*, **103**(30), pp. 11206-11210.

- Hill, J., S. Polasky, E. Nelson, D. Tilman, H. Huo, L. Ludwig, J. Neumann, H. Zheng, and D. Bonta (2009).** Climate change health costs of air emissions from biofuels and gasoline. *Proceedings of the National Academy of Sciences*, **106**(6), pp. 2077-2082.
- Hohmeyer, O. (1992).** Renewables and the full costs of energy. *Energy Policy*, **20**(4), pp. 365-375.
- Hoogwijk, M., A. Faaij, R. van den Broek, G. Berndes, D. Gielen, and W. Turkenburg (2003).** Exploration of the ranges of the global potential of biomass for energy. *Biomass and Bioenergy*, **25**, pp. 119-133.
- Hoogwijk, M., B. de Vries, and W. Turkenburg (2004).** Assessment of the global and regional geographical, technical and economic potential of onshore wind energy. *Energy Economics*, **26**, pp. 889-919.
- Hoogwijk, M., and W. Graus (2008).** *Global Potential of Renewable Energy Sources: A Literature Assessment*. Ecofys, Utrecht, The Netherlands, 45 pp.
- Hoogwijk, M., A. Faaij, B. de Vries, and W. Turkenburg (2009).** Exploration of regional and global cost-supply curves of biomass energy from short-rotation crops at abandoned croplands and rest land under four IPCC SRES land-use scenarios. *Biomass and Bioenergy*, **33**, pp. 26-43.
- Hourcade, J.-C., M. Jaccard, C. Bataille, and F. Gherzi (2006).** Hybrid modeling: New answers to old challenges – Introduction to the Special Issue of The Energy Journal. *Energy Journal*, **27**(Special Issue October), pp. 1-12.
- Hughes, A., M. Haw, H. Winkler, A. Marquard, and B. Merven (2007).** *Energy Modeling: A Modelling Input into the Long Term Mitigation Scenarios Process. LTMS Input Report*. Energy Research Centre, Cape Town, South Africa.
- IEA (2000).** *Experience Curves for Energy Technology Policy*. International Energy Agency (IEA), Paris, France, 133 pp.
- IEA (2003).** *Energy to 2050. Scenarios for a Sustainable Future*. International Energy Agency (IEA), Paris, France.
- IEA (2005).** *Projected Costs of Generating Electricity*. OECD/IEA, Paris, France.
- IEA (2006).** *Standard Review of the Netherlands*. International Energy Agency (IEA), Paris, France.
- IEA (2007a).** *Renewables for Heating and Cooling, Untapped Potential*. International Energy Agency (IEA), Paris, France.
- IEA (2007b).** *Renewables in Global Energy Supply: An IEA Fact Sheet*. International Energy Agency (IEA), Paris, France.
- IEA (2008a).** *Deploying Renewable Energies: Principles for Effective Policies*. International Energy Agency (IEA), Paris, France.
- IEA (2008b).** *Energy Technology Perspectives 2008. Scenarios and Strategies to 2050*. International Energy Agency (IEA), Paris, France, 646 pp.
- IEA (2009).** *World Energy Outlook 2009*. International Energy Agency (IEA), Paris, France, 696 pp.
- IEA (2010a).** *Energy Technology Perspectives 2010. Scenarios and Strategies to 2050*. International Energy Agency (IEA), Paris, France, 708 pp.
- IEA (2010b).** *Projected Costs of Generating Electricity - 2010 Edition*. International Energy Agency (IEA), Paris, France.
- IEA (2010c).** *Technology Roadmap Solar Photovoltaic Energy*. International Energy Agency (IEA), Paris, France.

- IEA (2010d).** *World Energy Outlook 2010*. International Energy Agency (IEA), Paris, France, 736 pp..
- IEA (2010e).** *Energy Balances of Non-OECD Countries*. International Energy Agency (IEA), Paris, France.
- IEA (2010f).** *Key Energy Statistics 2010*. International Energy Agency (IEA), Paris, France.
- IEA (2010g).** RD&D Budget. *IEA Energy Technology R&D Statistics* (database), doi: 10.1787/data-00488-en. Available at: www.oecd-ilibrary.org/energy/data/iea-energy-technology-r-d-statistics/rd-d-budget_data-00488-en.
- IMF (2009).** *World Economic Outlook Update: Contractionary Forces Receding but Weak Recovery Ahead*, International Monetary Fund (IMF), Washington D.C., USA
- IPCC (2000).** *Special Report on Emissions Scenarios*. N. Nakicenovic and R. Swart (eds.), Cambridge University Press, 570 pp.
- IPCC (2007).** *Climate Change 2007: Mitigation of Climate Change. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. B. Metz, O.R. Davidson, P.R. Bosch, R. Dave, and L.A. Meyer (eds.), Cambridge University Press, 851 pp.
- Isles, L. (2006).** *Offshore Wind Farm Development: Cost Reduction Potential*. PhD Thesis, Lund University, Lund, Sweden.
- Jaffe, A.B., R.G. Newell, and R.N. Stavins (2005).** A tale of two market failures: Technology and environmental policy. *Ecological Economics*, **54**(2-3), pp. 164-174.
- Jamasb, T. (2007).** Technical change theory and learning curves: Patterns of progress in electricity generation technologies. *Energy Journal*, **28**(3), pp. 133-150.
- Junginger, M., S. Agterbosch, A. Faaij and W.C. Turkenburg (2004).** Renewable electricity in the Netherlands. *Energy Policy*, **32**, pp. 1053-1073.
- Junginger, M., A. Faaij, R. Björheden, and W.C. Turkenburg (2005a).** Technological learning and cost reductions in wood fuel supply chains in Sweden. *Biomass and Bioenergy*, **29**, pp. 399-418.
- Junginger, M., A. Faaij, and W.C. Turkenburg (2005b).** Global experience curves for wind farms. *Energy Policy*, **33**, pp. 133-150.
- Junginger, M., E. Visser, K. Hjort-Gregersen, J. Koornneef, R. Raven, A. Faaij, and W. Turkenburg (2006).** Technological learning in bioenergy systems. *Energy Policy*, **34**, pp. 4024-4041.
- Junginger, M., W.V. Sark, and A. Faaij (eds.) (2010).** *Technological Learning in the Energy Sector: Lessons for Policy, Industry and Science*. Edward Elgar, Northampton, MA, USA.
- Kahouli-Brahmi (2009).** Testing for the presence of some features of increasing returns to adoption factors in energy system dynamics: An analysis via the learning curve approach. *Ecological Economics*, **68**, pp. 1195-1212.
- Kennedy, S. (2005).** Wind power planning: assessing long-term costs and benefits. *Energy Policy*, **33**(13), pp. 1661-1675.
- Kirkinen, J., T. Palosuo, K. Holmgren, and I. Savolainen (2008).** Greenhouse impact due to the use of combustible fuels: Life cycle viewpoint and relative radiative forcing commitment. *Environmental Management*, **42**(3), pp. 458-469.

- Kitous, A., P. Criqui, E. Bellevrat, and B. Chateau (2010).** Transformation patterns of the worldwide energy system – Scenarios for the century with the POLES model. *Energy Journal*, **31**(Special Issue), pp. 49-82.
- Knopf, B., O. Edenhofer, T. Barker, N. Bauer, L. Baumstark, B. Chateau, P. Criqui, A. Held, M. Isaac, M. Jakob, E. Jochem, A. Kitous, S. Kypreos, M. Leimbach, B. Magne, S. Mima, W. Schade, S. Scricciu, H. Turton, and D.v. Vuuren (2009).** The economics of low stabilisation: implications for technological change and policy. In: *Making Climate Change Work for Us: European Perspectives on Adaptation and Mitigation Strategies*. M. Hulme and H. Neufeldt (eds.), Cambridge University Press.
- Koljonen, T., H. Ronde, A. Lehtilä, T. Ekholm, I. Savolainen, and S. Syri (2008).** Greenhouse gas emission mitigation and energy security, a scenario results and practical programmes in some Asian countries. In: *2nd IAEE Asian Conference*, International Association for Energy Economics, Perth, Australia, 5-7 November 2008.
- Koljonen, T., M. Flyktman, A. Lehtilä, K. Pahkala, E. Peltola, and I. Savolainen (2009).** The role of CCS and renewables in tackling climate change. *Energy Procedia*, **1**(1), pp. 4323-4330.
- Koomey, J.G., Richey, R.C., Laitner, J.A., Markel, R.J., and Marnay, C. (1998).** *Technology and Greenhouse Gas Emissions: An Integrated Analysis using the LBNL-NEMS Model*. Lawrence Berkeley National Laboratory, Berkeley, CA, USA.
- Kouvaritakis, N., A. Soria, and S. Isoard (2000).** Modelling energy technology dynamics: methodology for adaptive expectations models with learning by doing and learning by searching. *International Journal of Global Issues*, **14**, pp. 1-4.
- Krewitt, W. (2002).** External costs of energy – do the answers match the questions? Looking back at 10 years of ExternE. *Energy Policy*, **30**(10), pp. 839-848.
- Krewitt, W. (2007).** Die externen Kosten der Stromerzeugung aus erneuerbaren Energien im Vergleich zur fossilen Stromerzeugung. *Umweltwissenschaften und Schadstoff-Forschung*, **19**(3), pp. 144-151.
- Krewitt, W., and B. Schlomann (2006).** *Externe Kosten der Stromerzeugung aus erneuerbaren Energien im Vergleich zur Stromerzeugung aus fossilen Energieträgern*. DLR, Institut für Technische Thermodynamik, Fraunhofer Institut für System- und Innovationsforschung, Gutachten im Auftrag des ZSW im Rahmen von Beratungsleistungen für das BMU, 59 pp.
- Krewitt, W., S. Teske, S. Simon, T. Pregger, W. Graus, E. Blomen, S. Schmid, and O. Schäfer (2009).** Energy [R]evolution 2008 – a sustainable world energy perspective. *Energy Policy*, **37**(12), pp. 5764-5775.
- Krey, V., and K. Riahi (2009).** Implications of delayed participation and technology failure for the feasibility, costs, and likelihood of staying below temperature targets – Greenhouse gas mitigation scenarios for the 21st century. *Energy Economics*, **31**(Supplement 2), pp. S94-S106.
- Krey, V., and L. Clarke (2011).** Role of renewable energy in climate mitigation: a synthesis of recent scenarios. *Climate Policy*, in press.
- Kruck, C., and L. Eltrop (2007).** *Perspektiven der Stromerzeugung aus Solar- und Windenergienutzung: Endbericht*. FKZ A204/04, IER (Institut für Energiewirtschaft und Rationelle Energieanwendung), Universität Stuttgart, Stuttgart, Germany.
- Kuik, O., L. Brander, and R.S.J. Tol (2009).** Marginal abatement costs of greenhouse gas emissions: A meta-analysis. *Energy Policy*, **37**, pp. 1395-1403.
- Kurosawa, A. (2006).** Multigas mitigation: An economic analysis using GRAPE model. *Energy Journal*, **27**(Special Issue November), pp. 275-288.

- Kusiima, J.M., and S.E. Powers (2010).** Monetary value of the environmental and health externalities associated with production of ethanol from biomass feedstocks. *Energy Policy*, **38**(6), pp. 2785-2796.
- Kverndokk, S., and K.E. Rosendahl (2007).** Climate policies and learning by doing: Impacts and timing of technology subsidies. *Resource and Energy Economics*, **29**(6), pp. 2785-2796.
- Leimbach, M., N. Bauer, L. Baumstark, M. Lüken, and O. Edenhofer (2010).** Technological change and international trade – Insights from REMIND-R. *Energy Journal*, **31**(Special Issue), pp. 109-136.
- Lewandowski, I., J. Weger, A. van Hooijdonk, K. Havlickova, J. van Dam, and A. Faaij (2006).** The potential biomass for energy production in the Czech Republic. *Biomass and Bioenergy*, **30**, pp. 405-421.
- Loulou, R., U. Remme, A. Kanudia, A. Lehtila, and G. Goldstein (2005).** *Documentation for the TIMES Model*. IEA Energy Technology Systems Analysis Programme, Paris, France.
- Loulou, R., M. Labriet, and A. Kanudia (2009).** Deterministic and stochastic analysis of alternative climate targets under differentiated cooperation regimes. *Energy Economics*, **31**(Supplement 2), pp. S131-S143.
- Luderer, G., V. Bosetti, J. Steckel, H. Waisman, N. Bauer, E. Decian, M. Leimbach, O. Sassi, and M. Tavoni (2009).** *The Economics of Decarbonization – Results from the RECIPE model Intercomparison*. Potsdam Institute for Climate Impact Research, Potsdam, Germany.
- Mackay, R., and S. Probert (1998).** Likely market-penetrations of renewable-energy technologies. *Applied Energy*, **59**, pp. 1-38.
- Magne, B., S. Kypreos, and H. Turton (2010).** Technology options for low stabilization pathways with MERGE. *Energy Journal*, **31**(Special Issue), pp. 83-108.
- Manne, A., and R. Richels (2005).** Merge: An Integrated Assessment Model for Global Climate Change. In: *Energy and Environment*. R. Loulou, J.-P. Waub, and G. Zaccour (eds.), Springer, pp. 175-189.
- Masui, T., S. Ashina, and J. Fujino (2010).** *Analysis of 4.5 W/m² Stabilization Scenarios with Renewable Energies and Advanced Technologies using AIM/CGE[Global] model*. AIM Team, National Institute for Environmental Studies, Tsukuba, Japan.
- McElroy, M.B., X. Lu, C.P. Nielsen, and Y. Wang (2009).** Potential for wind-generated electricity in China. *Science*, **325**, pp. 1380.
- McKinsey&Company (2007).** *Costs and Potentials of Greenhouse Gas Abatement in Germany*. McKinsey&Company.
- McKinsey&Company (2008a).** *An Australian Cost Curve for Greenhouse Gas Reduction*. McKinsey&Company.
- McKinsey&Company (2008b).** *Costs and Potentials for Greenhouse Gas Abatement in the Czech Republic*. McKinsey&Company.
- McKinsey&Company (2009a).** *China's Green Revolution*. McKinsey&Company.
- McKinsey&Company (2009b).** *Pathway to a Low-Carbon Economy*. McKinsey&Company.
- McKinsey&Company (2009c).** *Swiss Greenhouse Gas Abatement Cost Curve*. McKinsey&Company.
- Mehos, M.S., and D.W. Kearney (2007).** Potential carbon emissions reductions from concentrating solar power by 2030. In: *Tackling Climate Change in the U.S.: Potential Carbon*

Emissions Reductions from Energy Efficiency and Renewable Energy by 2030. C.F. Kutscher (ed.), American Solar Energy Society, Boulder, CO, USA, pp. 79-90. Available at: http://ases.org/images/stories/file/ASES/climate_change.pdf.

Meier, A., J. Wright, and A.H. Rosenfeld (1983). *Supplying Energy through Greater Efficiency: The Potential for Conservation in California's Residential Sector*. University of California Press, Berkeley, CA, USA.

Milligan, M. (2007). Potential carbon emissions reductions from wind by 2030. In: *Tackling Climate Change in the U.S.: Potential Carbon Emissions Reductions from Energy Efficiency and Renewable Energy by 2030*. C.F. Kutscher (ed.), American Solar Energy Society, Boulder, CO, USA, pp. 101-112. Available at: http://ases.org/images/stories/file/ASES/climate_change.pdf.

Montgomery, W.D., and A.E. Smith (2007). Price, quantity, and technology strategies for climate change policy. In: *Human-induced Climate Change: An Interdisciplinary Assessment*. M.E. Schlesinger, H.S. Khesghi, J. Smith, F.C. de la Chesnaye, J.M. Reilly, T. Wilson, and C. Kolstad (eds.), Cambridge University Press, pp. 328-342.

Morita, T., J. Robinson, A. Adegbulugbe, J. Alcamo, D. Herbert, E. Lebre la Rovere, N.Nakicenovic, H. Pitcher, P. Raskin, K. Riahi, A. Sankovski, V. Solkolov, B.d. Vries, and D. Zhou (2001). Greenhouse gas emission mitigation scenarios and implications. In: *Climate Change 2001: Mitigation of Climate Change; Contribution of Working Group III to the Third Assessment Report of the IPCC*. Cambridge University Press, pp. 115-166.

Mukora, A., M. Winskel, H.F. Jeffrey, and M. Müller (2009). Learning curves for emerging energy technologies. *Proceedings of the Institution of Civil Engineers - Energy*, **162**, pp. 151-159.

Nakicenovic, N., P. Kolp, K. Riahi, M. Kainuma, and T. Hanaoka (2006). Assessment of emissions scenarios revisited. *Environmental Economics and Policy Studies*, **7**(3), pp. 137-173.

Neij, L. (1997). Use of experience curves to analyse the prospects for diffusion and adoption of renewable energy technology. *Energy Policy*, **25**, pp. 1099-1107.

Neij, L. (1999). Cost dynamics of wind power. *Energy Policy*, **24**, pp. 375-389.

Neij, L. (2003). *Final Report of EXTOOL - Experience Curves: A Tool for Energy Policy Programme Assessment*. KFS AB, Lund, Sweden. Available at: www.iset.unikassel.de/extool/Exttool_final_report.pdf.

Neij, L. (2008). Cost developments of future technologies for power generation – A study based on experience curves and complementary bottom-up assessments. *Energy Policy* **36**, pp. 2200-2211.

Nemet, G.F. (2009). Interim monitoring of cost dynamics for publicly supported energy technologies. *Energy Policy*, **37**, pp. 825-835.

Nemet, G.F., T. Holloway, and P. Meier (2010). Implications of incorporating air-quality co-benefits into climate change policymaking. *Environmental Research Letters*, **5**(1), 014007.

Next Energy (2004). *Cost Curve for NSW Greenhouse Gas Abatement*. Next Energy Pty Ltd., Sydney, Australia. Available at: www.environment.nsw.gov.au/resources/climatechange/costcurve.pdf.

Nichols, L.A. (1994). Demand-side management. *Energy Policy*, **22**, pp. 840-847.

Novikova, A. (2009). *Sustainable Energy and Climate Mitigation Solutions and Policies: 3. Renewable Energy*. Department of Environmental Sciences, Central European University, Budapest, Hungary.

- O'Neill, B.C., K. Riahi, and I. Keppo (2010).** Mitigation implications of midcentury targets that preserve long-term climate policy options. *Proceedings of the National Academy of Sciences*, **107**(3), pp. 1011-1016.
- Oliveira, L.B., and L.P. Rosa (2003).** Brazilian waste potential: energy, environmental, social and economic benefits. *Energy Policy*, **31**(14), pp. 1481-1491.
- Overend, R.P., and A. Milbrandt (2007).** Potential carbon emissions reductions from biomass by 2030. In: *Tackling Climate Change in the U.S.: Potential Carbon Emissions Reductions from Energy Efficiency and Renewable Energy by 2030*. C.F. Kutscher (ed.), American Solar Energy Society, Boulder, CO, USA, pp. 113-130. Available at: http://ases.org/images/stories/file/ASES/climate_change.pdf.
- Owen, A.D. (2006).** Renewable energy: Externality costs as market barriers. *Energy Policy*, **34**(5), pp. 632-642.
- Pillai, R., and R. Banerjee (2009).** Renewable energy in India: Status and potential. *Energy*, **34**, pp. 970-980.
- Pingoud, K., H. Mälkki, M. Wihersaari, M. Hongisto, S. Siitonen, A. Lehtilä, M. Johansson, P. Pirilä, and T. Otterström (1999).** *ExternE National Implementation in Finland*. VTT, Espoo, Finland, 131 pp.
- Preiss, P. (2009).** *Report on the Application of the Tools for Innovative Energy Technologies*. Deliverable No. 7.2 – RS 1b, New Energy Externalities Developments for Sustainability (NEEDS), Rome, Italy.
- Riahi, K., A. Grübler, and N. Nakicenovic (2007).** Scenarios of long-term socio-economic and environmental development under climate stabilization. *Technological Forecasting and Social Change*, **74**(7), pp. 887-935.
- Ricci, A. (2009a).** *NEEDS : A Summary Account of the Final Debate*. New Energy Externalities Development for Sustainability (NEEDS), Rome, Italy.
- Ricci, A. (2009b).** *NEEDS : Policy Use of NEEDS Results*. New Energy Externalities Development for Sustainability (NEEDS), Rome, Italy.
- Ricci, A. (2010).** *Policy Use of the NEEDS report*. Final integrated report, Deliverable No. 5.3 - RS In, New Energy Externalities Developments for Sustainability (NEEDS), Rome, Italy.
- Roth, I.F., and L.L. Ambs (2004).** Incorporating externalities into a full cost approach to electric power generation life-cycle costing. *Energy*, **29**(12-15), pp. 2125-2144.
- Rufo, M. (2003).** *Developing Greenhouse Gas Mitigation Supply Curves for In-State Resources*. P500-03-025FAV, California Energy Commission, Sacramento, CA, USA.
- Sagar, A.D., and B. van der Zwaan (2005).** Technological innovation in the energy sector: R&D, deployment, and learning-by-doing. *Energy Policy*, **34**, pp. 2601-2608.
- Sawyer, S. (2009).** The Global status of wind power. In: *Global Wind Report 2009*. Global Wind Energy Council, Brussels, Belgium, pp. 8-13. Available at: www.gwec.net/index.php?id=167.
- Searchinger, T., R. Heimlich, R.A. Houghton, F.X. Dong, A. Elobeid, J. Fabiosa, S. Tokgoz, D. Hayes, and T.H. Yu (2008).** Use of US croplands for biofuels increases greenhouse gases through emissions from land-use change. *Science*, **319**(5867), pp. 1238-1240.
- Seyboth, K., L. Beurskens, O. Langniss, and R.E.H. Sims (2007).** Recognising the potential for renewable energy heating and cooling. *Energy Policy*, **36**(7), pp. 2460-2463.

- Sippula, O., J. Hokkinen, H. Puustinen, P. Yli-Pirilä, and J. Jokiniemi (2009).** Comparison of particle emissions from small heavy fuel oil and wood-fired boilers. *Atmospheric Environment*, **43**, pp. 4855-4864.
- Smith, K.R., M. Jerrett, H.R. Anderson, R.T. Burnett, V. Stone, R. Derwent, R.W. Atkinson, A. Cohen, S.B. Shonkoff, D. Krewski, C.A. Pope, M.J. Thun, and G. Thurston (2009).** Public health benefits of strategies to reduce greenhouse-gas emissions: health implications of short-lived greenhouse pollutants. *Lancet*, **374**(9707), pp. 2091-2103.
- Soderholm, P., and T. Sundqvist (2003).** Pricing environmental externalities in the power sector: ethical limits and implications for social choice. *Ecological Economics*, **46**(3), pp. 333-350.
- Soimakallio, S., T. Mäkinen, T. Ekholm, K. Pakkala, H. Mikkola, and T. Paapanen (2009).** Greenhouse gas balances of transportation biofuels, electricity and heat generation in Finland – Dealing with the uncertainties. *Energy Policy*, **37**(1), pp. 80-90.
- Solinski, J. (2005).** Primary energy balances of the CEE region and the countries dependence on energy import. In: *International Conference on “Policy and strategy of sustainable energy development for Central and Eastern European Countries until 2030”*, Warsaw, Poland, 22-23 November 2005.
- Soderholm, P., and T. Sundqvist (2007).** Empirical challenges in the use of learning curves for assessing the economic prospects of renewable energy technologies. *Renewable Energy*, **32**, pp. 2559-2578.
- Spalding-Fecher, R., and D.K. Matibe (2003).** Electricity and externalities in South Africa. *Energy Policy*, **31**(8), pp. 721-734.
- Sparovek, G., A. Barretto, G. Berndes, S. Martins, and R. Maule (2009).** Environmental, land-use and economic implications of Brazilian sugarcane expansion 1996 - 2006. *Mitigation and Adaptation Strategies for Global Change*, **14**(3), pp. 285-298.
- Stern, N. (2007).** *The Economics of Climate Change*. Cambridge University Press, 712 pp.
Available at: webarchive.nationalarchives.gov.uk/+http://www.hm-treasury.gov.uk/sternreview_index.htm.
- Stoft, S. (1995).** *The Economics of Conserved-Energy “Supply” Curves*. University of California Energy Institute, Berkeley, CA, USA.
- Sutherland, R.J. (1991).** Market barriers to energy efficiency investments. *Energy Journal*, **3**(12), pp. 15-35.
- Sweeney, J., and J. Weyant (2008).** *Analysis of Measures to Meet the Requirements of California’s Assembly Bill 32. Discussion draft, September 2008*. Stanford University Precourt Institute for Energy Efficiency, Stanford, CA, USA.
- Syri, S., N. Karvosenoja, A. Lehtila, T. Laurila, V. Lindfors, and J.P. Tuovinen (2002).** Modeling the impacts of the Finnish Climate Strategy on air pollution. *Atmospheric Environment*, **36**(19), pp. 3059-3069.
- Syri, S., A. Lehtilä, T. Ekholm, and I. Savolainen (2008).** Global energy and Emissions Scenarios for effective climate change mitigation – Deterministic and stochastic scenarios with the TIAM model. *International Journal of Greenhouse Gas Control*, **2**, pp. 274-285.
- Tavoni, M., and R. Tol (2010).** Counting only the hits? The risk of underestimating the costs of stringent climate policy. *Climatic Change*, **100**(3), pp. 769-778.
- Teske, S., T. Pregger, S. Simon, T. Naegler, W. Graus, and C. Lins (2010).** Energy [R]evolution 2010—a sustainable world energy outlook. *Energy Efficiency*, doi:10.1007/s12053-010-9098-y.

- Torfs, R., F. Hurley, B. Miller, and A. Rabl (2007).** *A Set of Concentration-Response Functions*. Deliverable 3.7 – RS1b/WP3, New Energy Externalities Development for Sustainability, Rome, Italy.
- UK SSEFRA (2006).** *Climate Change. The UK Programme 2006*. Secretary of State for the Environment Food and Rural Affairs (UK SSEFRA), The Stationary Office, Norwich, UK.
- van Benthem, A., K. Gillingham, and J. Sweeney (2008).** Learning-by-doing and the optimal solar policy in California. *Energy Journal*, **29**(3), pp. 131-151.
- van Dam, J., A. Faaij, I. Lewandowski, and G. Fischer (2007).** Biomass production potentials in Central and Eastern Europe under different scenarios. *Biomass and Bioenergy*, **31**(6), pp. 345-366.
- van den Wall-Bake, J.D., M. Junginger, A. Faij, T. Poot, and A.d.S. Walter (2009).** Explaining the experience curve: Cost reductions of Brazilian ethanol from sugarcane. *Biomass & Bioenergy*, **33**(4), pp. 644-658.
- van Sark, W., A.E. Alsema, H. Junginger, H. de Moor, and G.J. Schaeffer (2007).** Accuracy of progress ratios determined from experience curves: the case of crystalline silicon photovoltaic module technology development. *Progress in Photovoltaics: Research and Applications*, **16**, pp. 441-453.
- van Vliet, J., M.G.J. den Elzen, and D.P. van Vuuren (2009).** Meeting radiative forcing targets under delayed participation. *Energy Economics*, **31**(Supplement 2), pp. S152-S162.
- van Vuuren, D., Z. Fengqi, B. De Vries, J. Kejun, C. Graveland, and L. Yun (2003).** Energy and emission scenarios for China in the 21st century – Exploration of baseline development and mitigation options. *Energy Policy*, **31**, pp. 369-387.
- van Vuuren, D., M. den Elzen, P. Lucas, B. Eickhout, B. Strengers, B. van Ruijven, S. Wonink, and R. van Houdt (2007).** Stabilizing greenhouse gas concentrations at low levels: an assessment of reduction strategies and costs. *Climatic Change*, **81**(2), pp. 119-159.
- van Vuuren, D.P., M. Hoogwijk, T. Barker, K. Riahi, S. Boeters, J. Chateau, S. Scrieciu, J. van Vliet, T. Masui, K. Blok, E. Blomen, and T. Kram (2009).** Comparison of top-down and bottom-up estimates of sectoral and regional greenhouse gas emission reduction potentials. *Energy Policy*, **37**(12), pp. 5125-5139.
- van Vuuren, D.P., M. Isaac, M.G.J. Den Elzen, E. Stehfest, and J. Van Vliet (2010).** Low stabilization scenarios and implications for major world regions from an integrated assessment perspective. *Energy Journal*, **31**(Special Issue), pp. 165-192.
- Vorum, M., and J. Tester (2007).** Potential carbon emissions reductions from geothermal power by 2030. In: *Tackling Climate Change in the U.S.: Potential Carbon Emissions Reductions from Energy Efficiency and Renewable Energy by 2030*. C.F. Kutscher (ed.), American Solar Energy Society, Boulder, CO, USA, pp. 145-162. Available at: http://ases.org/images/stories/file/ASES/climate_change.pdf.
- Watkiss, P., and T. Downing (2008).** The social cost of carbon: Valuation estimates and their use in UK policy. *Integrated Assessment*, **8**(1), pp. 85-105.
- WEC (2004a).** *Comparison of energy systems using life cycle assessment. A special report*. World Energy Council, London, UK.
- WEC (2004b).** *Energy end-use technologies for the 21st century*. World Energy Council, London, UK

- Weisser, D. (2007).** A guide to life-cycle greenhouse gas (GHG) emissions from electric supply technologies. *Energy*, **32**(9), pp. 1543-1559.
- Weitzman, M.L. (2007).** Review: A Review of “The Stern Review on the Economics of ClimateChange”. *Journal of Economic Literature*, **45**(3), pp. 703-724.
- Williams, R.H. (2002).** Facilitating widespread deployment of wind and photovoltaic technologies. In: *2001 Annual Report*. The Energy Foundation, San Francisco, CA, USA, pp. 19-30.
- Winkler, H., H. A., and M. Mary Hawb (2009).** Technology learning for renewable energy: Implications for South Africa’s long-term mitigation scenarios. *Energy Policy*, **37**, pp. 4987-4996.
- Wiser, R., and M. Bolinger (2010).** *2009 Wind Technologies Market Report*. US Department of Energy, Washington, DC, USA.
- Yang, C. (2010).** Reconsidering solar grid parity. *Energy Policy*, **38**, pp. 3270-3273.
- Yu, C., W. van Sark, and E. Alsema (2011).** Unraveling the photovoltaic technology learning curve by incorporation of input price and scale effects. *Renewable and Sustainable Energy Reviews*, **15**, pp. 324-337.