

List of Publications

Nebojsa Nakicenovic

Books

- Bierbaum, R., Holdren, J.P., MacCracken, M., Moss, R.H., Raven, P.H., Nakicenovic, N.: 2007, *Confronting climate change: Avoiding the unmanageable and managing the unavoidable*, Scientific Expert Group Report on Climate Change and Sustainable Development, United Nations Foundation and Sigma Xi, The Scientific Research Society, North Carolina, USA, pp. 144.
- Bach, B., Biermayer, P., Fricko, O., Haas, R., Nakicenovic N. *et al.*: 2007, *Strategy Process Energy 2050: Intermediate Phase of Research Programme*, Federal Ministry for Transport, Innovation and Technology (BMVIT), Vienna, Austria, pp. 84. [In German]
- Chu, S., Goldemberg, J., Arungu-Olende, S., El-Ashry, M., Davis, G., Nakicenovic, N. *et al.*: 2007, *Lighting the way: Toward a sustainable energy future*, InterAcademy Council Report, pp.174. (ISBN 978-90-6984-531-9)
- Jepma, J.C., and Nakicenovic, N.: 2006, *Sustainable development and the role of gas*. Published by the International Gas Union for the 23rd World Gas Conference, June 2006, Amsterdam, the Netherlands, 126~pp. (ISBN 10 90-78212-05-5)
- Schellnhuber, J., Cramer, W., Nakicenovic, N., Wigley, T., and Yohe G. (eds): 2006, *Avoiding Dangerous Climate Change*, Cambridge University Press, Cambridge, UK. (ISBN-13: 9780521864718)
- Grübler, A., N. Nakicenovic, and W.D. Nordhaus (eds): 2002, *Technological Change and the Environment*, Resources for the Future Press, Washington, DC, USA, 407 pp. (ISBN 1-891853-46-5)
- Nakicenovic, N., Alcamo, J., Davis, G., de Vries, B., Fenhann, J., Gaffin, S., Gregory, K., Grübler, A. *et al.*: 2000, *Special Report on Emissions Scenarios*, Working Group III, Intergovernmental Panel on Climate Change (IPCC), Cambridge University Press, Cambridge, UK, 595 pp. (ISBN 0 521 80493 0). (<http://www.grida.no/climate/ipcc/emission/index.htm>)
- Nakicenovic, N., A. Grübler and A. McDonald (eds.): 1998, *Global Energy Perspectives*, Cambridge University Press, Cambridge, UK, 281 pp. (ISBN 0-521-64200-0).
- Nakicenovic, N., Nordhaus, W.D., Richels, R. and Toth, F.L. (eds.): 1996, *Climate Change: Integrating Science, Economics, and Policy*, International Institute for Applied Systems Analysis, Laxenburg, Austria. CP-96-1.
- Grübler, A., Jefferson, M., McDonald, A., Messner, S., Nakicenovic, N., Rogner, H.-H. and Schrattenholzer, L.: 1995, *Global Energy Perspectives to 2050 and Beyond*, International Institute for Applied Systems Analysis and World Energy Council, London, UK.

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Nakicenovic, N., Nordhaus, W.D., Richels, R. and Toth, F.L. (eds.): 1994, *Integrative Assessment of Mitigation, Impacts, and Adaptation to Climate Change*, International Institute for Applied Systems Analysis, Laxenburg, Austria. CP-94-9.

Kaya, Y., Nakicenovic, N., Nordhaus, W.D. and Toth, F.L. (eds.): 1993, *Costs, Impacts, and Benefits of CO₂ Mitigation*, International Institute for Applied Systems Analysis, Laxenburg, Austria. CP-93-2.

Nakicenovic, N. and Grübler, A. (eds.): 1991, *Diffusion of Technologies and Social Behavior*, Springer-Verlag, Berlin, Germany. (ISBN 3-540-53846-1).

Gilli, P.-V., Nakicenovic, N., Grübler, A. and Bodda, L.: 1990, *Technological Progress, Structural Change, and Efficient Energy Use*, Vol. 6. Schriftenreihe des Verbundkonzerns, Verbundgesellschaft, Vienna, Austria. [In German].

Häfele, W., Anderer, J., McDonald, A., and Nakicenovic, N.: 1981, *Energy in a Finite World: Paths to a Sustainable Future (Part 1.)*. Ballinger, CA, USA. (ISBN 0-88410-641-1)

Special Journal Issues

Nakicenovic, N., and Riahi, K. (eds): 2007, Integrated assessment of uncertainties in greenhouse gas emissions and their mitigation, *Technological Forecasting and Social Change*, Special Issue, **74**(7), September 2007, 234 pp. [Individual papers electronically available, see next section.]

Nakicenovic, N., (ed.): 2000, Global Greenhouse Gas Emissions Scenarios: Five Modeling Approaches, *Technological Forecasting and Social Change*, **63**(2-3), 105-388. (ISSN 0040-1625; Citation index: SCI)

Alcamo, J. and Nakicenovic, N., (eds.): 1998, Long-term Greenhouse Gas Emission Scenarios and Their Driving Forces, *Mitigation and Adaptation Strategies for Global Change*, **3**(2-4), 1-453. (ISSN 1381-2386)

Nakicenovic, N., Nordhaus, W.D., Richels, R. and Toth, F.L. (eds.): 1995, Integrated assessment of mitigation, impacts and adaptation to climate change, *Energy Policy*, **23**(4-5), 251-476. (ISSN 0301-4215; Citation index: SSCI)

Nakicenovic, N., Grübler, A., Inaba, A., Messner, S., Nilsson, S., Nishimura, Y., Rogner, H.-H., Schäfer, A., Schrattenholzer, L., Strubegger, M., Swisher, J., Victor, D. and Wilson, D.: 1993, Long-term strategies for mitigating global warming, *Energy - The International Journal*, **18**(5), 401-609. (ISSN 0360-5442; Citation index: SCI). Reprinted as RR-93-11, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N. and Grübler, A., (eds.): 1991, From democracy to chain saws: New perspectives on innovation diffusion, *Technological Forecasting and Social Change*, **39**(1-2), 1-231. (ISSN 0040-1625; Citation index: SCI)

Reviewed Articles and Book Chapters

Nakicenovic, N.: 2009, Energy research and technology for a transition toward a more sustainable

future. Book chapter in: *Global sustainability - a Nobel Cause*, H.J. Schellnhuber et al., (eds.) Cambridge University Press, (forthcoming).

Moss, R.H., Edmonds, J., Hibbard, K., Manning, M., Rose, S., van Vuuren, D.P., Carter, T.R., Emori, S., Kainuma, M., Kram, T., Meehl, G., Mitchell, J., Nakicenovic, N., Riahi, K., Smith, S., Stouffer, R.J., Thomson, A., Weyant, J., Wilbanks, T.: 2009, A new paradigm for the next generation of climate change scenarios. *Nature* [accepted].

Krey, V., Canadell, J., Nakicenovic, N., Gruebler, A., Riahi, K., O'Neill, B.C., et al.: 2009, Gas hydrates: entrance to a methane age or climate threat? *Environmental Research Letter*, [in press].

Schellnhuber, H.J., Messner, D., Leggewie, C., Leinfelder, R., Nakicenovic, N., Rahmstorfer, S., Schlacke, S., Schmid, J., Schubert, R.: 2009, *Kassensturz fuer den Weltklimavertrag - Der Budgetansatz, Sondergutachten*. WBGU, Berlin, Germany. ((ISBN 978-3-936191-26-4).

Moss, R.H., Nakicenovic, N., O'Neill, B.C., Riahi, K., et al.: 2008, Towards New Scenarios for Analysis of Emissions, Climate Change, Impacts, and Response Strategies. IPCC, Geneva, Switzerland. (ISBN: 978-92-9169-125-8)

Nakicenovic, N., (Contributor): 2008, Towards a Post-Carbon Society: European Research on Economic Incentives and Social Behaviour, Proceedings of Post-Carbon Society: European Research on Economic Incentives and Social Behaviour conference, 24 October, 2007, Brussels. European Commission Publications, Office for Official Publications of the European Communities, Luxembourg, pp. 54, (ISBN 978-92-79-07622-0)

Haas, R., Nakicenovic, N., Ajanovic, A., Faber, T. *et al.*: 2008, Towards sustainability of energy systems: A primer on how to apply the concept of energy services to identify necessary trends and policies, *Energy Policy*. doi:10.1016/j.enpol.2008.06.028. (ISSN 0301-4215).

Nakicenovic, N.: 2008, The mobility drive, *e & i Elektrotechnik und formationstechnik*, **125**(11), 362-366. doi:10.1007/s00502-008-0586-0.

Nakicenovic, N., Haas, R., Resch, G., Schleicher, S.P., Kettner, C. *et al.*: 2008, Assessment of Austrian contribution toward EU 2020 target sharing: Responding to the energy and climate package of the European Commission, in *Assessing Austria in the EU 2020 Target Sharing*, Nakicenovic, N., and Schleicher, S.P. (Coordinators), Synthesis Report, Austrian Institute for Economic Research (WIFO), Wegener Center for Climate and Global Change, Vienna University of Technology, Austria, pp. 51.

O'Neill, B., and Nakicenovic, N.: 2008, Learning from global emissions scenarios, in *Where Next with Global Environmental Scenarios*, *Environmental Research Letters*, Special Issue, **3**(045014), 9 pp. doi: 10.1088/1748-9326/3/4/045014.

Van Vuuren, D.P., Meinshausen, M., Plattner, G.K., Joos, F., Riahi, K., Nakicenovic, N. *et al.*: 2008, Temperature increase of 21st century mitigation scenarios, *PNAS*, **105**(40), 15258-15262. Open access article: <http://www.pnas.org/content/105/40/15258.full.pdf+html>

Fisher, B., Nakicenovic, N. (Coordinating Lead Author), Alfsen, K., Corfee-Morlot, J., de la Chesnaye, F., Riahi, K. *et al.*: 2007, Issues related to mitigation in the long-term context, Chapter 3, in *Climate Change 2007 - Mitigation*, Fourth Assessment Report, Working Group III of the Intergovernmental Panel on Climate Change (IPCC), [B. Metz, O.R. Davidson, P.R. Bosch, R. Dave, L.A. Meyer (eds)], Cambridge University Press, Cambridge, 169-250.

Gruebler, A., Nakicenovic, N., Riahi, K., Wagner, F. et al.: 2007, Introduction and overview, in Nakicenovic, N. and Riahi, K. (eds), Integrated assessment of uncertainties in greenhouse gas emissions and their mitigation, *Technological Forecasting and Social Change*, Special Issue, **74**(7), 873-886, September 2007. doi:10.1016/j.techfore.2006.07.009. (ISSN 0040-1625; Citation index: SCI)

Riahi, K., Gruebler A., Nakicenovic, N., 2007: Scenarios of Long-term Socio-economic and Environmental Development under Climate Stabilization, in Nakicenovic, N. and Riahi, K. (eds), Integrated assessment of uncertainties in greenhouse gas emissions and their mitigation, *Technological Forecasting and Social Change*, **74**(7), 887-935, September 2007. doi:10.1016/j.techfore.2006.05.026 (ISSN 0040-1625; Citation index: SCI)

Nakicenovic, N., Kolp, P., Riahi, K., Kainuma, M., Hanaoka, T., 2006: Assessment of Emissions Scenarios Revisited, *Environmental Economics and Policy Studies*, **7**(3), 137-173. (ISSN 1432-847X)

Nelson, G.C., Bennett, E., Berhe, A.A., Cassman, K., DeFries, R., Nakicenovic, N. et al., 2006: Anthropogenic Drivers of Ecosystem Change: an Overview. *Ecology and Society*, **11**(2), 29. (ISSN 1708-3087; Citation index: SCI EXP) URL: <http://www.ecologyandsociety.org/vol11/iss2/art29/> (online)

Nakicenovic, N. (Coordinating Lead Author), McGlade, J., Ma, Sh., Alcamo, J., Bennett, E. et al., 2005: Lessons learned for scenario analysis, in *Ecosystems and Human Well-being: Scenarios*, Vol.2, Millennium Ecosystem Assessment (MA), Island Press, Chicago, USA, pp. 449 - 468.

Nelson, G.C., Bennett, E., Berhe, A.A., Cassman, K., Nakicenovic, N. (Lead Author) et al., 2005: Drivers of change in ecosystem condition and services, in *Ecosystems and Human Well-being: Scenarios*, Vol.2, Millennium Ecosystem Assessment (MA), Island Press, Chicago, USA, pp. 173 - 222.

Nakicenovic, N.: 2004a, Future scenarios, Part II, *Energy End-Use Technologies for the 21st Century*, A report of the World Energy Council, pp. 11-26. (ISBN 0-946121-1090-946121-15X)

Nakicenovic, N.: 2004b, Socio-economic driving forces of emissions scenarios, in Field, B.C. and M.R. Raupach (eds), *The global carbon cycle: Integrating humans, climate and the natural world*. SCOPE Series 62, Island Press, pp. 225-242. (ISBN 1-55963-527-4)

Nakicenovic, N.: 2004c, Preface, in Shukla, P.R. et al., *Climate Policy Assessment for India: Applications of Asia-Pacific Integrated Model (AIM)*, Universities Press, India, pp. xi-xii. (ISBN 81-7371-484-3)

Altmann, J., D. Andler, K. Bruland, N. Nakicenovic, A. Nordmann et al.: 2004, *Converging Technologies - Shaping the Future of European Societies*, Report of the High-Level Expert Group on "Foresighting the New Technology Wave", European Commission Community Research, Brussels, Belgium. (ISBN 92-894-8313-X)

Anderson, D., S.T. Coelho, J. Goldemberg, T.B. Johansson, N. Nakicenovic et al.: 2004, *Overview: 2004 Update*, World Energy Assessment II, UNDP, UNDESA, WEC, New York, NY, USA. (ISBN 92-1-126167-8). (<http://www.undp.org/energy/weaover2004.htm>)

Caldeira, K., M. Granger Morgan, D. Baldocchi, P.G. Brewer, Ch-T. A. Chen, G-J. Nabuurs, N. Nakicenovic *et al.*: 2004, A portfolio of carbon management options, in Field, B.C. and M.R. Raupach (eds), *The global carbon cycle: Integrating humans, climate and the natural world*. SCOPE Series 62, Island Press, pp. 103-130. (ISBN 1-55963-527-4)

Cox, P. and N. Nakicenovic: 2004, *Assessing and simulating the altered functioning of the earth system in the anthropocene*, in H.-J. Schellnhuber, P.J. Crutzen, W.C. Clark, M. Claussen, and H. Held (eds), *Earth System Analysis for Sustainability*, Dahlem Workshop Report Series (DWR 91), MIT Press, pp. 293-312. (ISBN 0-262-19513-5). Reprinted as RR-04-14, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Edmonds, J., F. Joos, N. Nakicenovic, R. Richels, and J. Sarmiento: 2004, *Scenarios, targets, gaps and costs*, Chapter 4, in Field, B.C. and M.R. Raupach (eds), *The global carbon cycle: Integrating humans, climate and the natural world*. SCOPE Series 62, Island Press, pp. 77-102. (ISBN 1-55963-527-4)

Grübler, A., N. Nakicenovic, J. Alcamo, G. Davis, J. Fenhann *et al.*: 2004, Emissions scenarios: A final response, *Energy & Environment*, **15**(1), 11-24. (ISSN 0958-305X)

Lempert, R., N. Nakicenovic, D. Sarewitz, and M. Schlesinger: 2004, Characterizing climate-change uncertainties for decision-makers: An editorial essay, *Climatic Change*, **65**(1-2), 1-9. (ISSN 0165-0009; Citation index: SCI)

Steffen, W. (Rapporteur), M.O. Andreae, B. Bolin, P. Cox, P.J. Crutzen, U. Cubasch, H. Held, N. Nakicenovic *et al.*: 2004, *Group report: Earth system dynamics in the anthropocene*, in H.-J. Schellnhuber, P.J. Crutzen, W.C. Clark, M. Claussen, and H. Held (eds), *Earth System Analysis for Sustainability*, Dahlem Workshop Report Series (DWR 91), MIT Press, pp. 313-340. (ISBN 0-262-19513-5)

Steffen, W., M.O. Andreae, B. Bolin, P. Cox, P.J. Crutzen, U. Cubasch, H. Held, N. Nakicenovic *et al.*: 2004, Abrupt changes: the Achilles heels of the earth system, *Environment*, **46**(3), 8-20. (ISSN 0013-9157; Citation index: SSCI). Reprinted as RR-04-006, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 2003, Global energy perspectives and the role of technology, *Elektrotechnik und Informationstechnik (e&i)*, **10**, 309, 120. Jahrgang.

Nakicenovic, N.: 2003, Global energy perspectives and the role of technology, *Elektrotechnik und Informationstechnik (e&i)*, **11**, 377-381, 120. Jahrgang.

Nakicenovic, N., A. Grübler, S. Gaffin, T.-T. Jung *et al.*: 2003, IPCC SRES Revisited: A response, *Energy & Environment*, **14**(2-3), 187-214. (ISSN 0958-305X)

O'Neill, B., A. Grübler, N. Nakicenovic *et al.*: 2003, Planning for future energy resources, *Science*, **300**, 581. (ISSN 0036-8075; Citation index: SCI)

Swart, R., J.-R. Moreira, T. Morita, N. Nakicenovic *et al.*: 2003, Planning for future energy resources, *Science*, **300**, 582. (ISSN 0036-8075; Citation index: SCI)

Nakicenovic, N.: 2002a, Technological change and diffusion as a learning process, in Grübler, A., N. Nakicenovic, and W.D. Nordhaus (eds), *Technological Change and the Environment*, Resources for the Future Press, Washington, DC, USA, pp. 160-181. (ISBN 1-891853-46-5)

Nakicenovic, N.: 2002b, Methane, as an energy source for the 21st century, *International Journal of Energy Technology and Policy*, **1**(1-2), 91-107. (ISSN 1472-8923). Also published in *International Journal of Global Energy Issues*, **18**(1), 6-22. (ISSN 0954-7118). A version of this paper has also been published in *Informativo mineroenergético*, **XI**(2), February 2002, 48-50, Journal of National Association of Mining, Oil and Energy, Peru. [In Spanish].

Nakicenovic, N. and S. Messner: 2002, IASA Study of a complete supply of renewable energies in Western Europe, *Solarzeitalter*, **14**(1/2002), 31-39. [In German]. (ISSN 0937-3802)

Grübler, A., N. Nakicenovic, and W.D. Nordhaus: 2002, Induced Technological change and the environment: An introduction, in Grübler, A., N. Nakicenovic, and W.D. Nordhaus (eds), *Technological Change and the Environment*, Resources for the Future Press, Washington, DC, USA, pp. 1-8. (ISBN 1-891853-46-5)

Nakicenovic, N.: 2001a, Decarbonization, *Encyclopedia of Global Change: Environmental change and human society*, **1**, 241-243. (ISBN 0195-10825-6)

Nakicenovic, N.: 2001b, Energy scenarios - Energetics in the 21st century, *Horisont*, **5**, November 2001, 15-21. [In Estonian]. (ISSN 0134-2282)

Grübler, A. and N. Nakicenovic: 2001, Identifying dangers in an uncertain climate, *Nature*, **412**, 15. (ISSN 0028-0836; Citation index: SCI)

Nakicenovic, N. and K. Riahi: 2001, An assessment of technological change across selected energy scenarios, *Energy Technologies for the Twenty-First Century*, World Energy Council, WEC, September 2001.

Carter, T., E.L. La Rovere, R.N. Jones, R. Leemans, N. Nakicenovic (Lead Author) *et al.*: 2001, *Developing and Applying Scenarios*, Chapter 3 in *Climate Change 2001: Impacts, Adaptation, and Vulnerability*, Third Assessment Report, Working Group II of the Intergovernmental Panel on Climate Change, IPCC, Geneva, Switzerland.

Davidson, O., B. Metz, T. Morita, N. Nakicenovic, R. Swart *et al.*: 2001, *Climate Change 2001: Mitigation, Summary for Policy Makers*, Third Assessment Report, Working Group III of the Intergovernmental Panel on Climate Change, IPCC, Geneva, Switzerland. (<http://www.ipcc.ch>)

Morita, T., J. Robinson, J. Alcamo, N. Nakicenovic, D. Zhou *et al.*: 2001, *Greenhouse Gas Emission Mitigation Scenarios and Implications*, Chapter 2 in *Climate Change 2001: Mitigation*, Third Assessment Report, Working Group III of the Intergovernmental Panel on Climate Change, IPCC, Geneva, Switzerland.

Nakicenovic, N.: 2000a, Global Greenhouse Gas Emissions Scenarios: Integrated Modeling Approaches, *Technological Forecasting and Social Change*, **63**(2-3), 105-109. (ISSN 0040-1625; Citation index: SCI). Reprinted as RR-00-19, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 2000b, Greenhouse Gas Emissions Scenarios, *Technological Forecasting and Social Change*, **65**(2), 149-166. (ISSN 0040-1625; Citation index: SCI)

Gritsevskiy, A., and Nakicenovic, N.: 2000, Modeling uncertainty of induced technological change, *Energy Policy*, **28**(13), 907-921. (ISSN 0301-4215; Citation index: SSCI). Also published (2002) in

Grübler, A., N. Nakicenovic, and W.D. Nordhaus (eds), *Technological Change and the Environment*, Resources for the Future Press, Washington, DC, USA, pp. 251-279. (ISBN 1-891853-46-5). Reprinted as RR-00-24, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., and Grübler, A.: 2000, Energy and the protection of the atmosphere, *International Journal of Global Energy Issues*, **13**(1-3), 4-57. (ISSN 0954-7118). Reprinted as RR-00-18, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Morita, T., Nakicenovic, N., and Robinson, J.: 2000, Overview of mitigation scenarios for global climate stabilization based on new IPCC emissions scenarios (SRES), *Environmental Economics and Policy Studies*, **3**(2), 65-88. (ISSN 1432-847X)

Victor, D.G., Nakicenovic, N. and Victor, N.: 2000, The Kyoto Protocol emission allocations: Windfall surpluses for Russia and Ukraine, *Climatic Change*, **49**(3), 263-277. Reprinted as RR-01-10, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Smith, S.J., Wigley, T.M.L., Nakicenovic, N., and Raper, S.C.B.: 2000, Climate Implications of Greenhouse Gas Emissions Scenarios, *Technological Forecasting and Social Change*, **65**(2), 195-204. (ISSN 0040-1625; Citation index: SCI)

Nakicenovic, N., Kram, T., Makarov, A., Sorensen, B., Yokobori, K., Zhou, F. *et al.*: 2000, Energy Scenarios, (Chapter 9), in *Energy and the Challenge of Sustainability, World Energy Assessment Report*, Goldemberg, J., Anderson, D., Holdren, J.P., Jefferson, M., Jochem, E., Nakicenovic, N., Reddy, A.K.N., Rogner, H.-H. *et al.* (eds.), UNDP, UNDESA, WEC, New York, NY, USA. (<http://www.undp.org/seed/eap/activities/wea>)

Nakicenovic, N., Davidson, O., Davis, G., Grübler, A., Kram, T., Lebre La Roverere, E., Metz, B., Morita, T., Pepper, W., Pitcher, H., Sankovski, A., Shukla, P., Swart, R., Watson, R., Zhou, D.: 2000, *Special Report on Emissions Scenarios, Summary for Policy Makers*, Intergovernmental Panel on Climate Change, Geneva, Switzerland. (ISBN 9-2916-9113-5). Also published in French (ISBN 9-2916-9213-1), Russian (ISBN 9-2916-9313-8), and Spanish (ISBN 9-2916-9413-4). (<http://www.grida.no/climate/ipcc/emission/index.htm>)

Nakicenovic, N.: 1999a, Energy Perspectives for Eurasia and the Kyoto Protocol, Section II, Chapter 5 in Fu-chen Lo, K. Matsushita and H. Takagi (eds.), *The Sustainable Future of the Global System II, Proceedings of the International Conference on Sustainable Future of the Global System*, organized by UNU, IAS and IGES, 23-24 February, 1999, Tokyo, Japan, pp. 71-92.

Nakicenovic, N.: 1999b, Global Reference Emissions Scenarios, Section III, Chapter 6 in Fu-chen Lo, K. Matsushita and H. Takagi (eds.), *The Sustainable Future of the Global System II, Proceedings of the International Conference on Sustainable Future of the Global System*, organized by UNU, IAS and IGES, 23-24 February, 1999, Tokyo, Japan, pp. 93-118.

Nakicenovic, N.: 1999c, Energy Perspectives into the Next Millennium: From Resources Scarcity to Decarbonization, *Technological Forecasting and Social Change*, **62**, 101-106. (ISSN 0040-1625; Citation index: SCI)

Nakicenovic, N.: 1999d, The future of world energy, in A. Lovins and P. Hennicke, (eds.), *Voller Energie, Vision: Die globale Faktor Vier-Strategie für Klimaschutz und Atomausstieg, Visionen für das 21. Jahrhundert*, Bd.8., Campus Verlag, Frankfurt/New York, pp. 215-235. [In German]. (ISBN 3-593-36038-1)

Nakicenovic, N.: 1999e, Energy perspectives for Eurasia in the global context, *Perspectives in Energy*, (Quarterly of Moscow International Energy Club and the International Academy of Energy), 1997-1998, **4**(4), 351-365. (ISSN 0961-1347)

Grübler, A., Nakicenovic, N. and Victor, D.G.: 1999a, Modeling technological change: Implications for the global environment, *Annual Review of Energy and the Environment*, **24**, 545-569. (ISSN 1056-3466). Reprinted as RR-00-03, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Grübler, A., Nakicenovic, N. and Victor, D.G.: 1999b, Dynamics of energy technologies and global change, *Energy Policy*, **27**, 247-280. (ISSN 0301-4215; Citation index: SSCI). Reprinted as RR-99-7, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., (Contributor): 1998, in R.T., Watson, J.A., Dixon, S.P., Hamburg, A.C., Janetos, and R.H., Moss, (eds.), Protecting our planet, securing our future, *Interlinkages Assessment Report*, UN Environment Programme, U.S. National Aeronautics and Space Administration, The World Bank, November 1998.

Nakicenovic, N., Victor, N. and Morita, T.: 1998, Emissions Scenarios Database and Review of Scenarios, *Mitigation and Adaptation Strategies for Global Change*, **3**(2-4), 95-120. (ISSN 1381-2386). Reprinted as RR-99-4, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., 1997a, Technological change and learning, *Perspectives in Energy*, Quarterly of Moscow International Energy Club and the International Academy of Energy, **4**(2), 173-189. (ISSN 0961-1347)

Nakicenovic, N., 1997b, Long-term perspectives: Energy, development and the environment, *Nuclear Energy - Journal of the British Nuclear Energy Society*, **36**(4), 297-303. (ISSN 0140-4067)

Nakicenovic, N.: 1997c, Decarbonizing as a long-term energy strategy, in Y. Kaya and K. Yokobori (eds.), *Environment, energy, and economy: Strategies for sustainability*, United Nations University Press, Tokyo, New York, Paris, pp. 271-281. (ISBN 9-2808-0911-3)

Nakicenovic, N.: 1997d, Special integrated assessment issues for developing countries, in Climate change and integrated assessment models [IAMs] - Bridging the gaps, *Proceedings of the IPCC Asia - Pacific Workshop on Integrated Assessment Models*, United Nations University, Tokyo, 10-12 March 1997, IPCC, WMO, UNEP, 207-213. CGER - Report, (ISSN 1341-4356)

Nakicenovic, N.: 1996a, Freeing energy from carbon, *Daedalus*, **125**(3), 95-112. (ISSN 0011-5266). Published in J.A. Ausubel and H.D. Langford (eds.), *Technological Trajectories and the Human Environment*, National Academy Press, Washington, DC, USA, pp. 74-88. (ISBN 0-3090-5133-9). Published also in *Chemical Industry*, Journal of the Federation of Chemists and Technologists of Yugoslavia, **53**(12), 1999, 434-441. Reprinted as RR-97-4, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1996b, Long-term energy perspectives, *VEO Journal*, **4**, 50-54. [In German]. (ISSN 1026-9339)

Nakicenovic, N.: 1996c, Decarbonization: Doing more with less, *Technological Forecasting and Social Change*, **51**(1), 1-17. (ISSN 0040-1625; Citation index: SCI)

Nakicenovic, N.: 1996d, Technological change and learning, in N. Nakicenovic, W.D. Nordhaus, R. Richels and F.L. Toth (eds.), *Climate Change: Integrating Science, Economics, and Policy*, CP-96-1, International Institute for Applied Systems Analysis, Laxenburg, Austria, pp. 271-294.

Grübler, A. and Nakicenovic, N.: 1996a, Decarbonizing the global energy system, *Technological Forecasting and Social Change*, **53**(1), 97-110. (ISSN 0040-1625; Citation index: SCI). Reprinted as RR-97-6, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Grübler, A. and Nakicenovic, N.: 1996b, Global energy perspectives 2050, *Energiewirtschaftliche Tagesfragen*, **46**(5), 304-312. [In German]. (ISSN 0720-6240)

Nakicenovic, N. and Rogner, H.-H.: 1996, Financing global energy perspectives to 2050, *OPEC Review*, **XX**(1), 1-24. (ISSN 0277-0180). Reprinted as RR-96-9, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Rogner, H.-H. and Nakicenovic, N.: 1996, The role of sulfur in the climate change debate, *Energiewirtschaftliche Tagesfragen*, **46**(11), 731-735. [In German]. (ISSN 0720-6240)

Grübler, A., Jefferson, M. and Nakicenovic, N.: 1996, Global energy perspectives: A summary of the Joint Study by the International Institute for Applied Systems Analysis and World Energy Council, *Technological Forecasting and Social Change*, **51**(3), 237-264. (ISSN 0040-1625; Citation index: SCI)

Nakicenovic, N., Gilli, P.V. and Kurz, R.: 1996, Regional and global exergy and energy efficiencies, *Energy - The International Journal*, **21**(3), 223-237. (ISSN 0360-5442; Citation index: SCI)

Ishitani, H., Johansson, T.B., Convening Lead Authors; Nakicenovic, N., Rogner, H.-H., *et al.*, Principal Lead Authors : 1996, Energy supply mitigation options, in R.T. Watson , M.C. Zinyowera and R.H. Moss (eds.): *Climate Change 1995: Impacts, Adaptations and Mitigation of Climate Change: Scientific-Technical Analyses. Contribution of Working Group II to the Second Assessment Report of the Intergovernmental Panel on Climate Change*, Cambridge University Press, Cambridge and New York, pp. 589-647. (ISBN 0-521-56437-9)

Michaelis, L., Principal Author; Bleiviss, D., Orfeuill, J.-P., Pischinger, R., Principal Lead Authors; Nakicenovic, N., *et al.*, Lead Authors; Grübler, A., *et al.*, Contributing Authors: 1996, Mitigation options in the transportation sector, in R.T. Watson, M.C. Zinyowera and R.H. Moss (eds.): *Climate Change 1995: Impacts, Adaptations and Mitigation of Climate Change: Scientific-Technical Analyses. Contribution of Working Group II to the Second Assessment Report of the Intergovernmental Panel on Climate Change*, Cambridge University Press, Cambridge and New York, pp. 681-712. (ISBN 0-521-56437-9)

Nakicenovic, N., Principal Lead Author; Grübler, A., Ishitani, H., Johansson, T., Marland, G., Moreira, J.-R., Rogner, H.-H., Lead Author: 1996, Energy primer, in R.T. Watson, M.C. Zinyowera and R.H. Moss (eds.): *Climate Change 1995: Impacts, Adaptations and Mitigation of Climate Change: Scientific-Technical Analyses. Contribution of Working Group II to the Second Assessment Report of the Intergovernmental Panel on Climate Change*, Cambridge University Press, Cambridge and New York, pp. 77-92. (ISBN 0-521-56437-9)

Watson, R., Zinyowera, M.C., Convening Lead Authors; Acosta Moreno, R., Baron, R., Bohm, P., Chandler, W., Cole, V., Davidson, O., Dutt, G., Haites, E., Ishitani, H., Kruger, D., Levine, M., Zhong, L., Michaelis, L., Moomaw, W., Moreira, J.R., Mosier, A., Moss, R., Nakicenovic, N., Price,

L., Ravindranath, N.H., Rogner, H.-H., Sathaye, J., Shukla, P., Williams, T., Principal Lead Authors: 1996, Technologies, policies, and measures for mitigating climate change. Prepared under the auspices of IPCC Working Group II.

Watson, R., *et al.*, including Nakicenovic, N., and Rogner, H.-H.: 1996, Summary for policymakers: Scientific-technical analyses of impacts, adaptations and mitigation of climate change, IPCC Working Group II, *IPCC Second Assessment: Climate Change 1995, A Report of the Intergovernmental Panel on Climate Change*, Cambridge University Press, Cambridge and New York, pp. 27-42.

Nakicenovic, N.: 1995a, Long-term energy perspectives, *World Energy Council (WEC) Journal*, **12**(December), 45-51.

Nakicenovic, N.: 1995b, Comments on Chapter 9 (Modelling future greenhouse gas emissions: The second generation model description), in L.R., Klein and Fu-chen Lo (eds.), *Modelling Global Change*, United Nations University Press, Tokyo, Japan, pp. 341-354. (ISBN 92-808-0880-X)

Nakicenovic, N.: 1995c, Technology and climate change, in International Energy Agency (ed.), *Development and Deployment of Technologies to Respond to Global Climate Change Concerns*, OECD/IEA, Paris, France, pp. 65-83. (ISBN 92-64 14393-9)

Nakicenovic, N.: 1995d, Overland transportation networks: History of development and future prospects, in D. Batten, J. Casti and R. Thord (eds.): *Networks in Action*, Springer-Verlag, Berlin, Germany, pp. 195-228. (ISBN 3-540-58944-9)

Nakicenovic, N. and Labys, C.: 1995, An energy future without carbon, *Siemens-Zeitschrift*, **3**, 4-6. [In German].

Nakicenovic, N. and Nolan, L.: 1995, Gas may be the answer to the world's fuel need, *Forum for Applied Research and Public Policy*, **10**(2), 86-88. (ISSN 0887-8218)

Gilli, P.V., Nakicenovic, N. and Kurz, R.: 1995, First- and second-law efficiencies of the global and regional energy systems, *Proceedings of the 16th World Energy Congress*, Tokyo, 8-13 October 1995, *Volume PS/SRD 3.1 Rational Energy End-use Technologies*, World Energy Council, London, UK, pp. 229-248.

Nakicenovic, N., Amann, M. and Fischer, G.: 1995, Integrated assessment, *Options*, **3**(Fall/Winter), 5-7.

Nakicenovic, N.: 1994, The technical potential for improvement, *U.K. Energy Efficiency - Performance and Prospects. Proceedings of the British Energy Association's Annual Energy Forum*, 14 June 1994, World Energy Council, London, UK, pp. 52-86.

Messner, S. and Nakicenovic N.: 1994, The future of natural gas in Europe, *Proceedings of the Energy Technologies to Reduce CO₂ Emissions in Europe: Prospects, Competition, Synergy*, April 11-12, 1994, *Petten, The Netherlands*, OECD/IEA, Paris, France, pp. 217-237. (ISBN 9264 14308-4).

Nakicenovic, N.: 1993a, Carbon dioxide mitigation measures and options, *Environmental Science and Technology*, **27**(10), 1986-1989. (ISSN 0013-936X; Citation index: SCI)

Nakicenovic, N.: 1993b, Energy gases - the methane age and beyond, in D.G. Howell (ed.), *The Future of Energy Gases*, United States Government Printing Office, Washington, DC, USA, pp. 661-675. Reprinted as RR-94-8, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1993c, Energy strategies limiting global carbon dioxide emissions, *Proceedings of the Second Workshop on National Reduction Strategies for Greenhouse Gases*, Vol. 2, Norka-Verlag, Klosterneuburg, Austria, pp. 3-33. (ISBN 3-85126-051-1)

Grübler, A., Nakicenovic, N. and Schäfer, A.: 1993, *Summary of IPCC/EIS - IIASA International Workshop on Energy-Related Greenhouse Gases Reduction and Removal*, 1-2 October 1992, International Institute for Applied Systems Analysis, Laxenburg, Austria. SR-93-1.

Nakicenovic, N.: 1992a, Energy strategies and greenhouse gas emissions, *International Journal of Global Energy Issues*, **4**(4), 247-255. (ISSN 0954-7118)

Nakicenovic, N.: 1992b, Decarbonizing energy, *Options*, (September), 4-13.

Nakicenovic, N.: 1992c, Developments and prospects for land and air transportation in the next century, *World Energy Council (WEC) Journal*, (July), 57-64.

Grübler, A. and Nakicenovic, N.: 1992, International burden sharing in greenhouse gas reduction, *Working Paper 55*, Environmental Policies and Research Division, The World Bank, Washington, DC, USA. Revised version reprinted as RR-94-9, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Messner, S. and Nakicenovic, N.: 1992, A comparative assessment of different options to reduce CO₂ emissions, in K. Blok, W.C. Turkenburg, C.A. Hendriks and M. Steinberg (eds.), *Proceedings of the First International Conference on Carbon Dioxide Removal*, 4-6 March 1992, Amsterdam, The Netherlands, Pergamon Press, Oxford, UK, pp. 763-771. Also published in *Energy Conversion and Management*, **33**(5-8), 763-771. (ISSN 0196-8904). Reprinted as RR-93-15, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Grübler, A., Nakicenovic, N. and Schäfer, A.: 1992, Dynamics of transport and energy systems: History of development and a scenario for the future, World Energy Council (WEC) 15th Congress, Division 3, Energy and Development, Technical Session 3.3, 219-240, World Energy Council, Madrid, Spain. Reprinted as RR-93-19, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1991, Diffusion of pervasive systems: A case of transport infrastructures, *Technological Forecasting and Social Change*, **39**(1-2), 181-200. (ISSN 0040-1625; Citation index: SCI)

Nakicenovic, N. and Grübler, A.: 1991, Long waves, technology diffusion, and substitution, *Review*, **14**(2), 313-342. Reprinted as RR-91-17, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N. and John, A.: 1991, CO₂ reduction and removal: Measures for the next century, *Energy - The International Journal*, **16**(11-12), 1347-1377. (ISSN 0360-5442; Citation index: SCI). Reprinted as RR-92-4, International Institute for Applied Systems Analysis, Laxenburg, Austria.

- Nakicenovic, N.: 1990, Dynamics of change and long waves, *in* T., Vasko, R.U., Ayres, and L., Fontvielle, (eds.), *Life Cycles and Long Waves*, Springer-Verlag, Berlin, Germany, pp. 147-192. (ISBN 3-540-52473-8)
- Grübler, A. and Nakicenovic, N.: 1990, Development of energy and transport systems, *in* H.-H., Rogner, A.M., Khan, and G., Furlan, (eds.), *Economics, Modelling, Planning and Management of Energy*, World Scientific, Singapore, pp. 80-115. (ISBN 9971509490)
- Lee, T. and Nakicenovic, N.: 1990, Technology life cycles and business decisions, *in* T., Vasko, R.U., Ayres and L. Fontvielle, (eds.), *Life Cycles and Long Waves*, Springer-Verlag, Berlin, Germany, pp. 1-17. (ISBN 3-540-52473-8)
- Nakicenovic, N.: 1989, Expanding territories: Transport systems past and future, *in* D.F., Batten and R., Thord, (eds.), *Transportation for the Future*, Springer-Verlag, Berlin, Germany, pp. 43-66. (ISBN 3-540-51347-7)
- Nakicenovic, N.: 1988a, Technological Substitution and Long Waves in the USA, *in* T., Vasko, (ed.), *The Long Wave Debate*, Springer-Verlag, Berlin and New York. (ISBN 0-3871-8164-4)
- Nakicenovic, N.: 1988b, Dynamics and Replacement of US Transport Infrastructures, *in* J.H., Ausubel and R. Herman (eds.), *Cities and Their Vital Systems, Infrastructure Past, Present and Future*, National Academy Press, Washington, DC, USA, pp. 175-221. (ISBN 0-3090-3786-7)
- Nakicenovic, N., and Grübler, A.: 1988, The Dynamic Evolution of Methane Technologies, *in* T.H., Lee, *et al.* (eds.), *The Methane Age*, Kluwer Academic Publishers, New York, pp. 13-44. (ISBN 9-0277-2745-7). Also published as WP-87-2. International Institute for Applied Systems Analysis, Laxenburg, Austria.
- Ausubel, J.H., Grübler, A. and Nakicenovic, N.: 1988, Carbon dioxide emissions in a methane economy, *Climatic Change*, **12**, 245-263. (ISSN 0165-0009). Reprinted as RR-88-7, International Institute for Applied Systems Analysis, Laxenburg, Austria.
- Nakicenovic, N.: 1986, The Automobile Road to Technological Change: Diffusion of the Automobile as a Process of Technological Substitution. *Technological Forecasting and Social Change*, **29**, 309-340. (ISSN 0040-1625; Citation index: SCI). Also published as RR-87-01 and WP-85-19. International Institute for Applied Systems Analysis, Laxenburg, Austria.
- Nakicenovic, N., Rogner, H.-H., and Schrattenholzer, L.: 1982, Energy of the next fifty years. *Energiewirtschaftliche Tagesfragen*. [In German]. (ISSN 0720-6240)
- Nakicenovic, N., Häfele, W., and Rogner, H.-H.: 1981, *Useful regenerative energy sources of the world*. VDI Report, No. 405. Verband Deutscher Ingenieure, Düsseldorf, Germany. Also published in *Brennstoff-Wärme-Kraft*, Heft Nr. 05/1981, VDI Verlag, Düsseldorf, Germany. [In German].
- Nakicenovic, N., and Avenhaus, R.: 1979, Significant Thresholds of One-Sided Tests for Means of Bivariate Normally Distributed Variables (Annex: Numerical Calculations), *Communications in Statistics: Theory and Methods*, **A8**(3). (ISSN 0361-0926; Citation index: SCI EXP)
- Nakicenovic, N., and Marchetti, C.: 1978, Primary Energy Substitution Model on the Interaction between Energy and Society (Appendix: Methods of Calculation), *Chemical Economy and Engineering Review*, **7**(8). (ISSN 0009-2436). Also published as WP-75-88, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., Häfele W., and Schikorr, M.: 1977, Some Aspects of the Nuclear Fuel Cycle on the Man-Made Energy Islands, Phases I and II Considerations. In *Nuclear Waste Storage and the Energy Island, A New Possibility for Action*.

Nakicenovic, N., Beaujean, J.M., and Charpentier, J.P.: 1977, Global and International Energy Models: A Survey. *Annual Review of Energy*, Vol. 2. (ISSN 0362-1626)

Reports (Contributor)

Nakicenovic, N., (Contributor): 2009, World Economic and Social Survey 2009: Promoting Development, Saving the Planet. The United Nations, New York, NY, USA. (ISBN 978-92-1-109159-5) <http://www.un.org/esa/policy/wess/wess2009files/wess09/wess2009.pdf>

Nakicenovic, N. (Contributor): 2009, World development report 2010: Development and Climate Change, International Bank for Reconstruction and Development. The World Bank, Washington, DC., USA. (ISBN: 978-0-8213-7989-5) doi: 10.1596/978-0-8213-7989-5

Nakicenovic, N. (Contributor), 2008: World Energy Outlook 2008, Organization for Economic Co-operation and Development (OECD) and International Energy Agency (IEA) Publications, Paris, France, pp. 578. <http://www.worldenergyoutlook.org/>

Nakicenovic, N. (Contributor): 2008, *Towards a Post - Carbon Society: European research on economic incentives and social behaviour*, Conference Proceedings, 24 October, 2007, Brussels, European Commission Publications, Office for Official Publications of the European Communities, Luxembourg, pp. 54. (ISBN 978-92-79-07622-0)

Nakicenovic, N. (Contributor), 2007: World Energy Outlook 2007: China and India Insights, Organization for Economic Co-operation and Development (OECD) and International Energy Agency (IEA) Publications, Paris, France, pp. 600. (ISBN 978-92-64-02730-5)

IIASA Research Reports

O'Neill, B.C. and N. Nakicenovic: 2009, Learning from global emissions scenarios, *RP-09-002*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Environmental Research Letters*, Special Issue 'Where Next with Global Environmental Scenarios', **3**(045014) pp. doi: 10.1088/1748-9326/3/4/045014.

Cox, P. and N. Nakicenovic: 2004, Assessing and simulating the altered functioning of the earth system in the anthropocene, *RR-04-14*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from H.-J. Schellnhuber, P.J. Crutzen, W.C. Clark, M. Claussen, and H. Held (eds), *Earth System Analysis for Sustainability*, Dahlem Workshop Report Series (DWR 91), MIT Press, pp. 293-312. (ISBN 0-262-19513-5)

Steffen, W., M.O. Andreae, B. Bolin, P.J. Crutzen, P. Cox, U. Cubasch, H. Held, N. Nakicenovic *et al.*: 2004, Abrupt changes: the Achilles heels of the earth system, *RR-04-006*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Environment*, **46**(3), 8-20. (ISSN 0013-9157; Citation index: SSCI)

Nakicenovic, N. and K. Riahi: 2002, An Assessment of Technological Change Across Selected Energy Scenarios, *RR-02-005*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from a publication by the World Energy Council (WEC) on behalf of the Study Group on Energy Technologies for the 21st Century, September 2001.

Victor, D.G., N. Nakicenovic, and N. Victor: 2001, The Kyoto Protocol Emission Allocations: Windfall Surpluses for Russia and Ukraine, *RR-01-10*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Climatic Change*, **49**(3), 263-277. (ISSN 0165-0009; Citation index: SCI)

Nakicenovic, N.: 2000, Global greenhouse gas emissions scenarios: Integrated modeling approaches, *RR-00-19*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Technological Forecasting and Social Change*, **63**(2-3), 105-109. (ISSN 0040-1625; Citation index: SCI)

Gritsevskiy, A., and Nakicenovic, N.: 2000, Modeling uncertainty of induced technological change, *RR-00-24*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Energy Policy*, **28**(13), 907-921. (ISSN 0301-4215; Citation index: SSCI)

Nakicenovic, N. and Grübler, A.: 2000, Energy and the protection of the atmosphere, *RR-00-18*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from the *International Journal of Global Energy Issues*, **13**(1-3), 4-57. (ISSN 0954-7118)

Grübler, A., Nakicenovic, N. and Victor, D.G.: 2000, Modeling technological change: Implications for the global environment, *RR-00-3*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Annual Review of Energy and the Environment*, **24**, 545-569. (ISSN 1056-3466)

Grübler, A., Nakicenovic, N. and Victor, D.G.: 1999, Dynamics of energy technologies and global change, *RR-99-7*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Energy Policy*, **27**, 247-280. (ISSN 0301-4215; Citation index: SSCI)

Nakicenovic, N., Victor, N. and Morita, T.: 1999, Emissions Scenarios Database and Review of Scenarios, *RR-99-4*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Mitigation and Adaptation Strategies for Global Change*, **3**(2-4). (ISSN 1381-2386)

Nakicenovic, N.: 1997, Freeing energy from carbon, *RR-97-4*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Published in J.A. Ausubel and H.D. Langford (eds.), *Technological Trajectories and the Human Environment*, National Academy Press, Washington, DC, USA, pp. 74-88. (ISBN 0-3090-5133-9). Published also in *Chemical Industry*, Journal of the Federation of Chemists and Technologists of Yugoslavia, **53**(12), 1999, 434-441. Reprinted from *Daedalus*, Journal of the American Academy of Arts and Sciences, Summer 1996, **125**(3), 95-112. (ISSN 0011-5266)

Grübler, A. and Nakicenovic, N.: 1997, Decarbonizing the Global Energy System, *RR-97-6*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Technological Forecasting and Social Change*, **53**(1), 97-110, (1996). (ISSN 0040-1625; Citation index: SCI)

Nakicenovic, N. *et al.*: 1997, Energy Primer. *RR-97-1*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Climate Change 1995*, published for the Intergovernmental Panel on Climate Change, Cambridge University Press, pp. 75-92.

Nakicenovic, N. and Rogner, H.-H.: 1996, Financing global energy perspectives to 2050, *RR-96-9*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *OPEC Review*, **XX**(1), 1-24.

Gilli, P.V., Nakicenovic, N. and Kurz, R.: 1996, First- and second-law efficiencies of the global and regional energy systems, *RR-96-2*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *More Efficient Use of Energy*, Division 3 of Energy for Our Common World, Proceedings of the 16th WEC Congress, World Energy Council, 8-13 October 1995, Tokyo.

Grübler, A., Jefferson, M. and Nakicenovic, N.: 1996, Global energy perspectives: A summary of the joint study by IIASA and World Energy Council, *RR-96-10*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Technological Forecasting and Social Change*, **51**(3), 237-264. (ISSN 0040-1625; Citation index: SCI)

Nakicenovic, N.: 1994, Energy gases - the methane age and beyond, *RR-94-8*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from Howell, D.G., 1993, ed., *The Future of Energy Gases*, United States Government Printing Office, Washington, DC, USA, pp. 661-675.

Grübler, A. and Nakicenovic, N.: 1994, International burden sharing in greenhouse gas reduction, *RR-94-9*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Revised version of Grübler, A., and Nakicenovic, N., 1992, International Burden Sharing in Greenhouse Gas Reduction, Environment Working Paper 55, The World Bank, Washington, DC, USA.

Messner, S. and Nakicenovic, N.: 1993, A comparative assessment of different options to reduce CO₂ emissions, *RR-93-15*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Energy Conversion and Management*, **33**(5-8), 763-771. (ISSN 0196-8904)

Grübler, A., Nakicenovic, N. and Schäfer, A.: 1993, Dynamics of transport and energy systems: History of development and a scenario for the future, *RR-93-19*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., Grübler, A., Inaba, A., Messner, S., Nilsson, S., Nishimura, Y., Rogner, H., Schäfer, A., Schrattenholzer, L., Strubegger, M., Swisher, J., Victor, D. and Wilson, D.: 1993, Long-term strategies for mitigating global warming, *RR-93-11*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Energy - The International Journal*, **18**(5), 401-609. (ISSN 0360-5442; Citation index: SCI)

Nakicenovic, N. and John, A.: 1992, CO₂ reduction and removal: Measures for the next century, *RR-92-4*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Energy - The International Journal*, **16**(11-12), 1347-1377. (ISSN 0360-5442; Citation index: SCI)

Grübler, A. and Nakicenovic, N.: 1991a, Evolution of transport systems: Past and future, *RR-91-8*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Grübler, A., and Nakicenovic, N.: 1991b, Long waves, technology diffusion, and substitution, *RR-91-17*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Review*, **14**(2), 313-342.

Ausubel, J.H., Grübler, A. and Nakicenovic, N.: 1988, Carbon dioxide emissions in a methane economy, *RR-88-7*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Reprinted from *Climatic Change*, **12**, 245-263. (ISSN 0165-0009; Citation index: SCI)

Nakicenovic, N.: 1979, Software Package for the Logistic Substitution Model, *RR-79-12*. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., and Marchetti, C.: 1979, The Dynamics of Energy Systems and the Logistic Substitution Model, *RR-79-13*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Also published in *IIASA Reports*, **1**(1), January-March 1980.

Nakicenovic, N., Marchetti, C., Peterka, V., and Fleck, F.: 1978, The Dynamics of Energy Systems and the Logistic Substitution Model. Volume 1: Phenomenological Part, AR-78-1B; Volume 2: Theoretical Part, AR-78-1C; Executive Summary, AR-78-1A. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., and Avenhaus, R.: 1975, Material Accountability and its Verification: A Special Example of Multivariate Statistical Inference. *RR-75-25*. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Interim Reports/IIASA Working Papers

Ma, T., Gruebler, A., Nakicenovic, N., and Arthur, W.B.: 2008, Technologies as agents of change: A simulation model of the evolving complexity of the global energy system, *IR-08-021*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Riahi, K., Gruebler, A., Nakicenovic, N.: 2006, IIASA Greenhouse Gas Initiative (GGI) long-term emissions and climate stabilization scenarios, *IR-06-018*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., Ajanovic, A., and Kimura, O.: 2005, Global scenarios for the energy infrastructure development, *IR-05-028*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1998, Energy perspectives for Eurasia and the Kyoto protocol, *IR-98-067*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Victor, D.G., Nakicenovic, N. and Victor, N.: 1998, The Kyoto Protocol carbon bubble: implications for Russia, Ukraine and emission trading, *IR-98-094*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N. and Jefferson, M.: 1995, Global energy perspectives to 2050 and beyond, *WP-95-127*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N. and Rogner, H.: 1995, Global financing needs for long-term energy perspectives, *WP-95-101*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Grübler, A., Jefferson, M. and Nakicenovic, N.: 1995, A summary of the joint IIASA and WEC study on long-term energy perspectives, *WP-95-102*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1993a, Decarbonization: Doing more with less, *WP-93-76*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1993b, Energy gases: The methane age and beyond, *WP-93-33*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1992, Energy strategies of mitigating global change, *WP-92-1*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Messner, S. and Nakicenovic, N.: 1992, A comparative assessment different options to reduce CO₂ emissions, *WP-92-27*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., and Grübler, A.: 1987, The Dynamic Evolution of Methane Technologies. *WP-87-02*, International Institute for Applied Systems Analysis, Laxenburg, Austria. Published in T.H., Lee, *et al.* (eds.), *The Methane Age*, Kluwer Academic Publishers, New York, pp. 13-44. (ISBN 9-0277-2745-7).

Nakicenovic, N.: 1987, Transportation and Energy Systems in the U.S. *WP-87-01*, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1985, Patterns of Change: Technological Substitution and Long Waves in the United States. *WP-85-50*. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., and Schrattenholzer, L.: 1985, The Value of Oil Price Projections. *WP-85-68*. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., and Strubegger, M.: 1984, Model of European Natural Gas Production, Trade and Consumption. *WP-84-53*. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., and Casti, J.: 1983, The World Automotive Industry in Transition: A Framework for Projection into the 21st Century. *WP-83-2*. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N., and Messner, S.: 1982, Solar Energy Futures in a Western European Context. *WP-82-126a* and *WP-82-126b*. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Other Papers and Publications

Nakicenovic, N.: 2009, Supportive policies for developing countries: a paradigm shift. Background paper prepared for World Economic and Social Survey 2009.

Nakicenovic, N.: 2009, How much technological change, research and development is enough? In: Second Conference and Conference Volume on The Economics of Technologies to Combat Global Warming, Snowmass, CO, USA,
<http://www.iiasa.ac.at/Research/TNT/WEB/Workshops/tech09.html>

Nakicenovic, N., Gebetsroither, B., Kettner, C., Lang, R., Schleicher, S.P., et al.: 2009, Energiestrukturen für 2020, Technisches Basisdokument für die österreichische Energiestrategie, Austrian Institute for Economic Research (WIFO), Wegener Center for Climate and Global Change, Vienna University of Technology, Austria, KWI Consultants, Montantuniversitaet Leoben,

Technical University Graz, pp. 51

http://www.energiestrategie.at/images/stories/pdf/08_wifo_oesbasisdokument.pdf

van Vuuren, D.P., Meinshausen, M., Plattner, G.-K., Riahi, K., Nakicenovic, N., et. Al.: 2009, Temperature increase of 21st century mitigation scenarios. IOP Conference Series, Vol.6: Climate Change: Global Risks, Challenges and Decisions, 10-12 Mach 2009, Copenhagen, Denmark.

Winiwarter, W., Steindl, C., Sporer, M., Roediger-Schluga, T., Gebetsroither, E., Nakicenovic, N., Mueller, A., Huber, C., Ramusch, M., Froehlich, M., Amon, B., Ajanovic, A.: 2009, reclip:tom - Research for climate protection: Technological options for mitigation, Annual Report, Austrian Research Centers-ARC Seibersdorf (in press)

Nakicenovic, N.: 2008, The changing world: Energy perspectives and climate change, Paper presented at the Global Economic Symposium, 4 – 5 September 2008, Plön Castle, Germany.

Nakicenovic, N.: 2008, The changing world: Energy perspectives and climate change, Paper presented at the 10. Symposium on 'Energieinnovation: Energiewende', 15 – 17 February, 2008, Graz, Austria.

Nakicenovic, N.: 2007, The changing world: Energy, climate and social futures, Paper presented at the 35th Anniversary Conference of IIASA 'Global Development: Science and Policies for the Future', 14 – 15 November, 2007, Vienna, Austria.

Nakicenovic, N.: 2007, *CO₂ emissions pathways compared to long-term CO₂ stabilization scenarios in the literature and IPCC AR4*, Paper prepared for the IEA Conference on World Energy Outlook 2007, 21 November, 2007, Vienna, Austria.

Nakicenovic, N., S. Schleicher, R. Haas *et al.*: 2007, *Assessment of Austrian contribution toward EU 2020 target sharing: Determining reduction targets based on potentials for energy efficiency and renewables for 2020*, in Synthesis Report 'Assessing Austria in the EU 2020 Target Sharing', Energy Economics Group, Vienna University of Technology, WIFO, Vienna, Wegener Centre for Climate and Global Change, Graz, Austria.

http://www.energiestrategie.at/images/stories/pdf/10_WIFO_EEG_WEGC_07_targetsharing.pdf

Nakicenovic, N.: 2005, Technological change for stabilizing atmospheric greenhouse gas concentrations, *in* Energy Systems of the Future: Challenges and Solutions Paths, Proceedings of the 4th International Energy Economics Conference (IEWT 2005), 16-18 February, 2005, Vienna, Austria.

Gehl, S., H. Haegermark, H. Larsen, M. Morishita, N. Nakicenovic *et al.*: 2005, Energy end-use technologies for the 21st century. RISØ International Energy Conference, 23 May, 2005, Roskilde, Denmark.

Nakicenovic, N., A. Gruebler, V. Chirkov, and P. Kolp: 2005, Synthetic fuel technology adoption under climatic constraints in the Asian region. Research study conducted for the Environmental Research Center (ERC), Tsukuba, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 2004a, Future Scenarios, Part II, *in* Energy end-use technologies for the 21st century: A report of the World Energy Council. Paper presented at the 19th World Energy Congress, 5--9 September, 2004, Sydney, Australia.

- Nakicenovic, N.: 2004b, Global energy perspectives and the role of new and advanced technologies. Paper prepared for Energy Symposium of Future Forum Austria, 18 Juni, 2004, Vienna, Austria.
- Bernold, T., W. Bibel, K. Bruland, R. Kneucker, N. Nakicenovic *et al.*, 2004: Converging Technologies for a Diverse Europe, European Commission Community Research, Conference Report, 14 - 15 September, 2004, Brussels, Belgium. (ISBN 92-894-8312-1).
- Nakicenovic, N., A. Grübler, V. Chirkov, and E. Slentoe: 2004, Long-term scenarios of greenhouse gas emissions in the Asian region. Research study conducted for the Environmental Research Center (ERC), Tsukuba, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.
- Nakicenovic, N.: 2003a, *The role of new and advanced energy technologies in global energy perspectives*. Paper prepared for a High-Level Energy Symposium, 25 November, 2003, Koninklijke Militaire School, Brussels, Belgium.
- Nakicenovic, N.: 2003b, Global energy perspectives and the role of technology, *in* Realität und Vision der ökologischen Stromversorgung, Proceedings of 41. International Conference of the Austrian Society of Power Engineering in Austrian Electrotechnical Association (Österreichische Gesellschaft für Energietechnik im OVE), 5-6 November 2003, Salzburg, Austria. CD ROM.
- Nakicenovic, N.: 2003c, Technology strategies for a carbon constrained world, *in* Delivering climate technology programmes, policies and politics, Proceedings of RIIA Conference in association with The Carbon Trust, 4-5 November, 2003, London, UK. CD ROM.
- Nakicenovic, N.: 2003d, Future scenarios and the role of CO₂ capture and storage. Presentation in Session I, IPIECA Workshop 'Carbon Dioxide Capture and Geological Storage: Contributing to Climate Change Solutions', 21-22 October, 2003, Brussels, Belgium. CD ROM.
- Nakicenovic, N.: 2003e, *Climate change scenarios and mitigation technologies*. Paper prepared for the Proceedings of the World Climate Change Conference (WCCC), 29 September – 3 October, 2003, Moscow, Russia.
- Nakicenovic, N.: 2003f, Global prospects and opportunities for methane technologies in the 21st century, *Seven Decades with IGU*, 118-125, International Gas Union Publications, published jointly by International Systems and Communications Limited and International Gas Union. (<http://www.igu.org>)
- Nakicenovic, N.: 2003g, Global energy scenarios, climate change and sustainable development *in* L. Sønderberg Petersen and H. Larsen (eds.), *Energy technologies for post Kyoto targets in the medium term, Proceedings of RISØ International Energy Conference*, 19-21 May, 2003, Roskilde, Denmark, Risø National Laboratory Publications, pp. 26-40. CD ROM.
- Nakicenovic, N.: 2003h, *Technology strategies for mitigating global warming*. Paper presented at the Delhi Sustainable Development Summit (DSDS), 6-9 February, 2003, New Delhi, India, and at the 3. International Energy Economics Conference (IEWT 2003), 12-14 February, 2003, Vienna, Austria.
- Nakicenovic, N., A. Grübler *et al.*: 2003, Mitigation scenario analysis in Asia. Research study conducted for the Japan Institute of Systems Research (JISR), Tokyo, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.
- Nakicenovic, N.: 2002, Technological change in energy, mobility and information systems, *in* R.K. Pachauri (ed.), *Ensuring sustainable livelihoods challenges for governments, corporates, and civil*

- society at Rio+10, Proceedings of the Delhi Sustainable Development Summit 2002*, 8-11 February, 2002, New Delhi, India, Tata Energy Research Institute, pp. 238-240. (ISBN 81-7993-002-5)
- Nakicenovic, N., A. Grübler *et al.*: 2002, Mitigation scenario analysis in Asia. Research study conducted for the Japan Institute of Systems Research (JISR), Tokyo, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.
- Nakicenovic, N.: 2001a, *Scenarios of future greenhouse gas emissions*. International Institute for Applied Systems Analysis, Laxenburg, Austria.
- Nakicenovic, N.: 2001b, *Energy technologies for sustainable development*. Paper presented at the UN CSD-9 World Energy Assessment Session on Energy and the Challenge of Sustainability, 20 April, 2001, New York, NY, USA.
- Nakicenovic, N.: 2001c, *Public-private partnerships to achieve sustainable energy for transport*. Paper presented at the UN CSD-9 Multi-Stakeholder Ministerial Dialogue on Energy and Transport Issues, 16-20 April, 2001, New York, NY, USA.
- Nakicenovic, N.: 2001d, *Clean and affordable energy for the 21st century*. Paper presented at Plenary Session 7 on Energy for the Masses, at the 1st Delhi Sustainable Development Summit, 7-9 February, 2001, New Delhi, India.
- Nakicenovic, N.: 2000a, *Methane - the global source of energy for the 21st century*. Paper presented at *the 21st World Gas Conference*, 6-9 June, 2000, Nice, France. An article based on this paper has been published in *Informativo mineroenergético*, **XI**(2), February 2002, 48-50. Journal of National Association of Mining, Oil and Energy, Peru. [In Spanish].
- Nakicenovic, N.: 2000b, Energy transitions for the 21st century. Paper presented at *the World Conference of Scientific Academies*, Tokyo International Forum, 15-18 May, 2000, Tokyo, Japan. (<http://www.interacademies.net/intracad/tokyo2000.nsf/all/nakicenovic>)
- Nakicenovic, N.: 2000c, Long-term Energy Perspectives and Economic Development, in *Wissenschaft und Zukunft: Beiträge der Wissenschaften zur Bewältigung Globaler Krisen*, Magerl, G., H. Rumpler and Ch. Smekal (eds.), *Proceedings of the Austrian Science Day*, organized by the Austrian Science Federation, 28-30 October, 1999, Semmering, Austria, 153-194.
- Nakicenovic, N. and Fischer, G.: 2000, IPCC Scenarios and their Impacts on Agriculture. Paper presented at the International Symposium on *Development Policies for the New Millennium*, 12-14 July, 2000, Mumbai, India.
- Nakicenovic, N. and Riahi, K.: 2000, An Assessment of Technological Change Across Selected Energy Scenarios. Paper presented at the WEC Study Group Meeting on *Energy Technologies for the 21st Century*, 18 January 2001, London, UK.
- Nakicenovic, N., Gritsevskiy, A., Grübler, A. and Riahi, K.: 2000, Global Natural Gas Perspectives. International Gas Union (IGU), Hoersholm, Denmark, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria. First published in October 2000 by IGU at *the IGU Council Meeting*, Kyoto, Japan.
- Nakicenovic, N. *et al.*: 2000, New energy technologies for Eurasia, Report to the Central Research Institute of the Electric Power Industry (CRIEPI), Tokyo, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1999, Perspectives of energy supply to 2050, *DNK Energietag '98*, DNK-Schriften Nr. 6/1999, pp. 26-36. [In German].

Nakicenovic, N. *et al.*: 1999, Global energy supply and demand and their environmental effects, Report to the Central Research Institute of the Electric Power Industry (CRIEPI), Tokyo, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N. *et al.*: 1999, Future potential of CO₂ removal by innovative technologies, Final report to the Tokyo Electric Power Co. (TEPCO), Tokyo, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1998a, Energy Perspectives for Eurasia in the Global Context. Paper presented at the International Conference on *Russia's and Other CIS-Countries' Energy Potential - Crucial Link Between Europe and Asia-Pacific*, 31 March-2 April 1998, Moscow International Energy Club, Moscow, Russia and at the NBER - Yale Center for Global Change Workshops, 12-14 August 1998, Snowmass, CO, USA.

Nakicenovic, N.: 1998b, Energy perspectives for Eurasia and the Kyoto Protocol. Paper presented at the International Conference on *Sustainable Future of the Global System*, The United Nations University/IAS and The Institute of Global Environmental Strategies, 23-24 February 1999, Tokyo, Japan.

Nakicenovic, N., A. Grübler and A. McDonald (eds.): 1998, Global Energy Perspectives, A joint IIASA-WEC study. Support Paper presented at *the 17th WEC Congress*, Special Session 2, 15. September 1998, Houston, TX, USA.

Victor, D.G., Nakicenovic, N. and Victor, N.: 1998, The Kyoto Protocol carbon bubble: implications for Russia, Ukraine and emission trading. Paper presented at *the NBER - Yale Center for Global Change Workshops*, 12 - 14 August 1998, Snowmass, CO, USA.

Weyant, J., Y. Yanigisawa, I. Bashmakov, C. Chu, T.-Y. Jung, N. Nakicenovic, L.P. Rosa, M. Scott, P.R. Schukla, and K. Yamaji: 1998, Energy and Industry, *in* S. Rayner and E.L. Malone (eds.), *Human Choice & Climate Change*, Battelle Press, Columbus, OH, USA. pp. 203-289. (ISBN 1-57477-046-2)

Nakicenovic, N. *et al.*: 1998, Global energy supply and demand and their environmental effects, Report to the Central Research Institute of the Electric Power Industry (CRIEPI), Tokyo, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1997a, Global energy perspectives, New Energy Technology For Asia Pacific, *Proceedings of the WEC Asia Pacific Regional Forum*, organized by the WEC China National Committee, 22-24 April 1997, Beijing, China, Vol. 3, World Energy Council, London, UK, pp. 41-50.

Nakicenovic, N.: 1997b, Technological potential for mitigation, *in* S.J. Hassol and J. Katzenberger (eds.), *Elements of Change 1996*, Aspen Global Change Institute, Aspen, CO, USA. (ISSN 1083-9089).

Nakicenovic, N.: 1997c, Technological Change as a Learning Process, Paper presented at the International Workshop on *Induced Technological Change and the Environment*, 26-27 June 1997, International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N. *et al.*: 1997, Global energy supply and demand and their environmental effects, Report to the Central Research Institute of the Electric Power Industry (CRIEPI), Tokyo, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N. *et al.*: 1997, An assessment of carbon removal and reduction options including life-cycle analysis, Final report to the Tokyo Electric Power Co. (TEPCO), Tokyo, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1996a, Long term energy perspective of the world, *Toward more 3E Energy Systems: more Efficient, more Environmentally benign and more Economical*, Center for Integrated Research in Science and Engineering (CIRSE), Nagoya University, Nagoya, Japan.

Nakicenovic, N.: 1996b, Global development: Long-term energy and environmental trends, Forum im Pressehaus, Informationskreis Kernenergie, INFORUM Verlags- und Verwaltungs GmbH, Bonn, Germany. [In German].

Nakicenovic, N.: 1996c, Long-term perspectives: Energy, development and the environment, Uranium and Nuclear Energy: 1996, *Proceedings of the Twenty-First Annual Symposium of the Uranium Institute*, London, September 1996, Uranium Institute, London, UK, pp. 1-10. (ISBN 0 946777 35 7; ISSN 0265-430X).

Nakicenovic, N. and Grübler, A.: 1996, Energy and the protection of the atmosphere, United Nations Department for Policy Coordination and Sustainable Development (UN DPCSD).

Nakicenovic, N. *et al.*: 1996, Global energy supply and demand and their environmental effects, Report to the Central Research Institute of the Electric Power Industry (CRIEPI), Tokyo, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1995, Energy and sustainable development, Submitted to the UNU Conference on *Sustainable Future of the Global System*, 16-18 October 1995, Tokyo, Japan.

Nakicenovic, N. and Jefferson, M.: 1995, Global energy perspectives to 2050 and beyond, Support paper published by the *World Energy Council 16th Congress*, 8-13 October 1995, Tokyo, Japan.

Nakicenovic, N. and Rogner, H.-H.: 1995, Financing global energy perspectives to 2050, Support paper published by the *World Energy Council 16th Congress*, 8-13 October 1995, Tokyo, Japan.

Nakicenovic, N. *et al.*: 1995, Trends of technological development concerning CO₂ reduction in the world, Final report to the Tokyo Electric Power Co. (TEPCO), Tokyo, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1994, Technology and climate change, Presented at the High-Level Meeting on *Development and Deployment of Technologies to Respond to Global Climate Change Concerns*, 21-22 November 1994, Paris, France.

Nakicenovic, N.: 1993, Decarbonization as a long-term energy strategy, Submitted to *the UNU Tokyo Conference*, November 1993, Tokyo, Japan.

Nakicenovic, N. *et al.*: 1993, New energy technology development and transfer in “Common House” Europe and prospects for the future in a global context, Final report to the Tokyo Electric Power Co. (TEPCO), Tokyo, Japan. International Institute for Applied Systems Analysis, Laxenburg, Austria.

Nakicenovic, N.: 1992a, Greenhouse gas emissions and energy development: A note on second generation model, Comments on Modeling Future Greenhouse Gas Emissions: The Second Generation Model Description by J. Edmonds *et al.*

Nakicenovic, N.: 1992b, The role of surface transportation: History of development and prospects for the next century.

Nakicenovic, N. *et al.*: 1992, Long-term strategies for mitigating global warming: Towards new earth, Report to Japan Industrial Policy Research Institute (JIPRI). [In Japanese and English].

Nakicenovic, N.: 1991a, Energy strategies for mitigating global change.

Nakicenovic, N.: 1991b, Summary of the workshop on CO₂ reduction and removal: Measures for the next century.

Nakicenovic, N.: 1991c, CO₂ reduction and removal: Measures for the next century, Report on IIASA agreement with Global Industrial & Social Progress Research Institute (GISPRI), Tokyo, Japan.

Grübler, A. and Nakicenovic, N.: 1991, Energy and the environment in the 21st century.

Grübler, A. and Nakicenovic, N.: 1990, Economic map of Europe: Transport, communication and energy infrastructures in a wider Europe.

Nakicenovic, N., and Häfele, W.: 1983, The Contribution of Oil and Gas for the Transition to Long Range Novel Energy Systems. Report to 11th World Petroleum Congress, London, UK.

Nakicenovic, N., and Messner, S.: 1983, The Future Use of Solar Energy in Western Europe. Scientific Report, T 83-001, T 83-002. Technological Research and Development - Nonnuclear Energy Technologies. Federal Ministry for Research and Technology, Bonn, Germany. [In German].

Nakicenovic, N., and Schrattenholzer, L.: 1983, Development, Structure and Influencing Factors of World Market Prices of Energy. Prepared for Planning Consultants Oy ERG Ltd., Helsinki, Finland.

Nakicenovic, N.: 1982, Two Alternative Solar Energy Scenarios for Western Europe. Solar Energy Resources, Technologies, Potential. European Space Agency, ESA SP-181. European Space Agency, Paris, France.

Nakicenovic, N., Messner, S., Rogner, H.-H. and Strubegger, M.: 1982, Long-Term Energy Supply Strategies for Stockholm County. Report prepared for the Regional Planning Office, Stockholm County Council, Stockholm, Sweden.