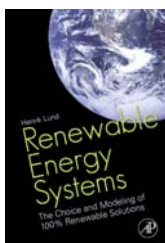


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Author of the Book: Renewable Energy Systems
Order here: www.elsevierdirect.com
Read more here: <http://www.energyplan.eu/book2/>



Thomson Reuters Highly Cited Researcher within Engineering:
<http://highlycited.com/>

Danish citizen, born 1960 in Aalborg, Denmark.

Publications and Citations:

- Scopus April 2014: 84 articles and h index = 31 (3062 citations)
- Web of Knowledge April 2014: 66 Articles and h index = 28 (2447 citations)
- Among the 250 most cited researches within engineering in the world <http://highlycited.com/>

Primary University Education:

- Dr.Techn. Choice Awareness and Renewable Energy Systems 2009
- PhD Implementation of Sustainable Energy Systems, Aalborg University 1990.
- M.Sc. Engineering, Aalborg University, 1985.

Supplementary Education:

- English for Academic purposes II, Aalborg University 1991
- English for Academic purposes I, Aalborg University 1990
- The Secretarial Certificate in Specialised Language for Business in English 1989
- Economics & Planning of Generation and Transmission Systems, Imperial College of Science and technology, University of London 1989.
- HD part 1. (Bachelor of Economics part I), Aalborg University 1984

Employments:

- Professor, Aalborg University 2006 – present.
- Associate Professor, Aalborg University 1993 - 2006.
- Head of Department, Depart. of Development and Planning, Aalborg University, 1996 – 2002.
- Assistant Professor, Aalborg University, 1990 – 1993.
- Ph.D.-student, Aalborg University, 1986 – 1990.
- Consultant engineer, PlanEnergi s/i, 1985-1986.
- Research Fellow, Aalborg University, 1985.

Positions:

- Board member of “GRØN ENERGI”
- Manager of “Geest Enge & Lunde” Wind turbine company (225 kW Vestas), 2001-2008.
- Member of "[Energisparepuljen](#)" (Danish Energy Saving Funds). 2004 - 2010.
- Member of "[Energifonden](#)" (EnergyFoundation). 2011 – ongoing.
- Board member of “Vaarst Wind Turbine Company” (150 kW Bonus), 1988-2006.
- Member of the representative of “Himmerlands electricity supply”, 1994-2003.
- President of “Himmerlands Energy and Environmental Office”, 1995-2002.
- President of “Vaarst Vestervang” housing community, 1990-1995.

Research competences:

- *Energy System Analysis*: Methods and models for the design and the evaluation of technical and environmental consequences of energy systems with emphasise on integrated distributed generation technologies such as energy conservation, CHP and renewable energy.
- *Feasibility Studies*: Methods of socioeconomic feasibility studies with emphasise on employment and balance of payment consequences of the development and implementation of new technologies.
- *Public Regulation and Technological Change*: Analysis and design of public regulation measures in a market economy with emphasise on the implementation of environmental objectives and technological change in the energy sector.

Affiliation with scientific journals:

- Editor-in-Chief of [ENERGY - The International Journal](#) (Elsevier)
- Associate Editor of [Energy Strategy Reviews](#) (Elsevier)
- Associate Editor of [International journal of Energy Technology and Policy](#) (Inderscience)
- Member of Editorial Board of [Renewable Energy](#) (Elsevier)
- Member of Editorial Board of [Applied Energy](#) (Elsevier)
- Member of Editorial Board of [International journal of Alternative Propulsion](#) (Inderscience)
- Guest Editor of Special Issue of [International Journal for Sustainable Energy](#) on *Distributed Generation*, [Volume 23, Number 4, December 2003](#).
- Guest Editor of Special Issue of [Journal of Cleaner Production](#) on *Sustainable Development in Practice*, [Volume 15, Issue 3, February 2007](#).
- Guest Editor of Special Issue of [Utilities Policy](#) on *Sustainable Energy and Transportation Systems*, [Volume 16, Issue 2, June 2008](#).
- Guest Editor of Special of [Applied Energy](#) on 100 Percent Renewable Energy Systems, [Volume 88, Issue 2, February 2011](#).
- Reviewer for among others: Energy Policy (Elsevier); Journal of Cleaner Production (Elsevier); International Journal of Hydrogen Energy (Elsevier); Journal of Power and Energy; CLEAN AIR. International Journal on Energy for a Clean Environment (EDC); Thermal Science. International scientific journal; International Journal of Global Energy Issues; Applied Thermal Engineering; Journal of Civil Engineering and Management; European Journal of Operational Research; IET Renewable Power Generation; International Journal of Environmental Studies

Technical advisor/evaluator to:

- Strategic Public Policy Research Grants Council of Hong Kong (2011)

- Science Foundation Ireland (2010)
- The Faroese Research Council (2010)
- The National Priorities Research Program ([NPRP](#)) of the Qatar National Research Fund (2010-2014)
- EUDP, The national Danish Research and Demonstration program (2008-2009)
- Unity through Knowledge Fund (UKF) of the Croatian Ministry of Science, 2007
- The Research Council of Norway, 2006-2007
- Norwegian Centre for International Cooperation in Higher Education (SIU), 2006-2007
- The Danish Council for Strategic Research, 2005.
- Science and Technology Foundation, Ministry of Science, Portugal, 2004.
- University of Luxembourg Research Programme, 2004.
- EPSRC (Engineering and Physical Sciences Research Council) UK, 2003
- The Danish Supreme Court , 2002-2004
- Danish Energy Research Programme, 2000-2002
- Danish Biogas Organisation, 1992
- Ishøj municipality, 1991
- Vester Hjeremtslev Energy Company, 1990
- The City Council Alderman of Energy Supply , the municipality of Århus, 1987-1989

Awards:

- Gold medal in 1998 for "Best Research Paper Award" within the area "Energy Policies & Economics" by "International Energy Foundation".
- Teacher of the year at the Study board of Surveying and Planning, Aalborg University, 1994

Management activities:

- Head of 4DH (Strategic Research Centre for 4th Generation District Heating Technologies and Systems) financed by the Danish Council for Strategic Research involving 32 university and industrial partners in Denmark, Sweden, Croatia and China. 2012-2017.
- Coordinator of research project [CEESA](#) (Coherent Energy and Environmental System Analysis) financed by the Danish Council for Strategic Research involving 7 partners (mostly Danish Universities). 2007-2011.
- Coordinator of the [DESIRE](#) project (Dissemination strategy on Electricity balancing for large Scale Integration of Renewable Energy). European project involving ten partners financed by 6th FP, DG-TREN. 2005-2007.
- As head of department responsible for the implementation of more than 150 research project with a turnover of approximately 80 million DKK from 1996-2002. Personal involved in a number of research projects and committee works in Danish energy planning, and in the implementation of various local energy projects.
- Project leader of "Local energy markets", financed by Danish Energy Research Programme, 2001-2003.
- Project leader of "Import and employment consequences of Danish energy investments", financed by SiD and the Danish Energy Research Programme, 1994-1998.

Appointments/special invitations:

- Member of International Scientific Committee of the [2009 Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems](#) Member of International Scientific Committee of the [2007 Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems](#).
- Member of Board of Directors of IEF, [International Energy Foundation](#), 2005-present.
- Member of Scientific Advisory Board to 3rd Dubrovnik Conference on Sustainable Development, 2005
- Invited by "Der Präsident der Bundesrepublik Deutschland" Johannes Rau to the [panel discussion of save energy supply](#) in the Vila Hammerschmidt in the connection to the World Renewables2004 conference in Bonn, 2-5 June 2004.
- Invited speaker at the [International Conference on New and Renewable Energy](#)

- [Technologies for Sustainable Development](#), Évora, Portugal, 28 June - 1 July 2004.
- Organiser of special technical session on Distributed Generation in ENERGEX'2004 conference in Lisbon, Portugal.
- Member of Scientific Advisory Board to 2rd Dubrovnik Conference on Sustainable Development, 2003
- IEF Fellow (International Energy Foundation), 1998-

Computer Programme Developments:

- The initial version of the energyPRO computer tool for the design and operation of CHP plants, 1988-90. Afterwards the tool was made commercial by the software company Energy and Environmental Data ([EMD](#)). The tool has been used in the project design of most small CHP plants in Denmark.
- EnergyBALANCE (1995-2000). A simple Excel spreadsheet model. Now made available as part of local energy planning tool [Energy Planning Tool web-site](#).
- EnergyPLAN (1995-present). Model for the system analysis of large-scale integration of renewable energy into the electricity supply. www.EnergyPLAN.eu.

Teaching Experience:

- Teaching experience at all levels of engineering education from first semester courses to PhD courses, 1985-present.
- Courses at Aalborg University "Life Long" education, 1999, 2001, 2002, 2003, 2004.
- Sustainable Energy Planning Workshop at Universidad Nacional de Ingeniería, Managua, Nicaragua 2006.
- Local Energy Planning Workshop in Surin, Thailand, 2000.
- Courses at "PROCEED 21", 2000-2001.
- Energy Planning Workshop in Bangkok, Thailand, 1999.
- Courses at "Nordic Training Programme for Energy Experts in the Baltic States", the PROCEED Programme, 1997-1998.
- Head of post master education programme in "Energy Planning" and "Distributed CHP generation", 1987-1990.
- Courses at Danish Engineering Associations Educational programme, 1987-1990.

Publications: <http://www.lund.people.plan.aau.dk/Publications/>

- App. 70 articles in refereed international journals (1997-2011).
- App. 40 papers and presentations in mostly refereed international proceedings (1986-2011).
- 40 books and reports on energy planning (1983-2011).
- More than 75 articles and book chapters (1983-2011).

Scientific journal papers with 100+ citations (April 2014):

- Connolly, D. Lund, H. Mathiesen, B.V. Leahy, M. *A review of computer tools for analysing the integration of renewable energy into various energy systems.* [Applied Energy](#), Vol 87(4), pp. 1059-1082, April 2010. (206 citations in Scopus, April 2014).
- Lund, H. Möller, B. Mathiesen BV and Dyrelund, A. *The role of district heating in future renewable energy systems.* [Energy](#), Vol 35(3), pp. 1381-1390, March 2010. (107 citations in Scopus, April 2014).
- Lund, H, Mathiesen BV. *Energy system analysis of 100% renewable energy systems - The case of Denmark in years 2030 and 2050.* [Energy](#), Vol 34(5), pp. 524-531, May 2009. (177 citations in Scopus, April 2014).
- Lund, H. Kempton, W. *Integration of renewable energy into the transport and electricity sectors through V2G.* [Energy Policy](#), Vol. 36 (9), pp. 3578-3587, September 2008. (216 citations in Scopus, April 2014).
- Lund, H. *Renewable energy strategies for sustainable development.* [Energy](#), Vol 32(6), pp. 912-919, June 2007. (174 citations in Scopus, April 2014).
- Lund, H. *Large-scale integration of wind power into different energy systems.* [Energy](#), Vol 30 (13), pp. 2402-2412, 2005. (181 citations in Scopus, April 2014).

Scientific journal papers (1997-2014):

- T. Ma, P.A. Østergaard, H. Lund, H. Yang and L. Lu. *An energy system model for Hong Kong 2020*. [Energy](#), Vol 68, pp. 301-310, April 2014.
- H. Lund, S. Werner, R. Wiltshire, S. Svendsen, J.E. Thorsen, F. Hvelplund and B.V. Mathiesen. *4th Generation District Heating (4GDH). Integrating smart thermal grids into future sustainable energy systems*. [Energy](#), Vol 68, pp. 1-11, April 2014.
- Poul Alberg Østergaard, Henrik Lund, Brian Vad Mathiesen. *Energy System impacts of desalination in Jordan*. [International Journal of Sustainable Energy Planning and Management](#), Vol 1, pp. 29-40, 2014.
- D. Connolly, H. Lund, B.V. Mathiesen, S. Werner, B. Möller, U. Persson, T. Boermans, D. Trier, P.A. Østergaard, S. Nielsen. *The Heat Roadmap Europe: Combining district heating with heat savings to decarbonise the EU energy system*. [Energy Policy](#), Vol 65, pp. 475-489, February 2014.
- Liu, W. Lund, H. Mathiesen, BV. *The technical Modelling the transport system in China and evaluating the current strategies towards the sustainable transport development*. [Energy Policy](#), Vol 58, pp. 347-357, July 2013
- Lund, H. Østergaard, P.A. Möller, B. Mathiesen, B.V. Karnøe, P. Andersen, A.N. Morthorst, P.E. Karlsson, K. Münster, M. Munksgaard, J. Wenzel, H. *System and market integration of wind power in Denmark*. [Energy Strategy Reviews](#), Vol 1(3), pp. 143-156, March 2013
- Hong, L. Lund, H. Mathiesen, B.V. Möller, B. *2050 pathway to an active renewable energy scenario for Jiangsu province*. [Energy Policy](#), Vol 53, pp. 267–278, February 2013.
- Hedegaard, K. Mathiesen, B.V. Lund, H. Heiselberg, P. *Wind power integration using individual heat pumps – Analysis of different heat storage options*. [Energy](#), Vol 47, pp. 284-293, November 2012.
- Lund, H. Mathiesen, B.V. *The role of Carbon Capture and Storage in a future sustainable energy system*. [Energy](#), Vol 44, pp. 469-476, August 2012.
- Connolly, D. Lund, H. Mathiesen, BV. Pican, E. Leahy, M. *The technical and economic implications of integrating fluctuating renewable energy using energy storage*. [Renewable Energy](#) Vol 43, pp. 47-60, July 2012.
- Lund, H. Hvelplund, F. *The economic crisis and sustainable development: The design of job creation strategies by use of concrete institutional economics*. [Energy](#), Vol 43(1), pp. 192–200, July 2012.
- Lund, H. Andersen, A.N. Østergaard, P.A. Mathiesen, B.V. Connolly, D. *FROM ELECTRICITY SMART GRIDS TO SMART ENERGY SYSTEMS - A market operation based approach and understanding*. [Energy](#), Vol 42(1), pp. 96–102, June 2012
- Hong, L. Lund, H. Möller, B. *The importance of flexible power plant operation for Jiangsu's wind integration*. [Energy](#), Vol 41(1), pp. 499-507, May 2012.
- Gota, DI. Lund, H. Miclea, L. *Romanian energy system model and a nuclear reduction strategy*. [Energy](#), Vol 36(11), pp. 6413-6419, November 2011.
- Liu, W. Lund, H. Mathiesen, B.V. *Large-scale integration of wind power into the existing Chinese energy system*. [Energy](#), Vol 36(8), pp. 4753-4760, August 2011.
- Connolly, D. Lund, H. Finn, P. Mathiesen, BV. Leahy, M. *Practical operation strategies for pumped hydroelectric energy storage (PHES) utilising electricity price arbitrage*. [Energy Policy](#), Vol 39(7), pp. 4189-4196, July 2011.
- Lund, H. Marszal, A. Heiselberg, P. *Zero Energy Buildings and Mismatch Compensation Factors*. [Energy and Buildings](#), Vol 43(7), pp. 1646-1654, July 2011.
- Lund, H. Østergaard, P.A. Stadler, I. *Towards 100% renewable energy systems*. [Applied Energy](#), Vol 88(2), pp. 419-421, February 2011.
- Østergaard, P.A. Lund, H. *A renewable energy system in Frederikshavn using low-temperature geothermal energy for district heating*. [Applied Energy](#), Vol 88(2), pp. 497-487, February 2011.
- Mathiesen, B.V. Lund, H. Karlsson, K. *100% Renewable energy systems, climate mitigation and economic growth*. [Applied Energy](#), Vol 88(2), pp. 488-501, February 2011.
- Connolly, D. Lund, H. Mathiesen, B.V. Leahy, M. *The first step towards a 100% renewable energy-system for Ireland*. [Applied Energy](#), Vol 88(2), pp. 502-507, February 2011.
- Liu, W. Lund, H. Mathiesen, B.V. Zhang, X. *Potential of renewable energy systems in China*.

- [Applied Energy](#), Vol 88(2), pp. 518-524, February 2011.
- Østergaard, P.A. Mathiesen, B.V. Möller, B. Lund, H. *A renewable energy scenario for Aalborg Municipality based on low-temperature geothermal heat, wind power and biomass.* [Energy](#), Vol 35(12), pp 4892-4901, December 2010.
- Lund, H. *The implementation of renewable energy systems. Lessons learned from the Danish case.* [Energy](#), Vol 35(10), pp. 4003-4009, October 2010.
- Münster, M. Lund, H. *Comparing Waste-to-Energy technologies by applying energy system analysis.* [Waste Management](#), Vol 30(7), pp. 1251-1263, July 2010.
- Möller, B. Lund, H. *Conversion of individual natural gas to district heating: Geographical studies of supply costs and consequences for the Danish energy system.* [Applied Energy](#), Vol. 87(6), pp. 1846-1857, June 2010
- Connolly, D. Lund, H. Mathiesen, B.V. Leahy, M. *Modelling the existing Irish energy-system to identify future energy costs and the maximum wind penetration feasible.* [Energy](#), Vol 35(5), pp. 2164-2174, May 2010.
- Chen, M. Lund, H. Rosendahl, L.A. and Condra, T.J. *Energy efficiency analysis and impact evaluation of the application of thermoelectric power cycle to today's CHP systems.* [Applied Energy](#), Vol 87(4), pp. 1231-1238, April 2010.
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- Lund, H. Mathiesen BV. Christensen, P. Schmidt, JH. *Energy system analysis of marginal electricity supply in consequential LCA.* [The International Journal of Life Cycle Assessment](#), Vol 15(3), pp. 260-271, March 2010.
- Mathiesen, BV. Lund, H. *Comparative analyses of seven technologies to facilitate the integration of fluctuating renewable energy source.* [IET Renewable Power Generation](#) Vol. 3 (2), pp. 190-204, June 2009.
- Lund, H. Salge G. *The role of compressed air energy storage (CAES) in future sustainable energy systems.* [Energy Conversion and Management](#) Vol. 50 (5), pp. 1172-1179, May 2009.
- Münster, M. Lund, H. *Use of waste for heat, electricity and transport—Challenges when performing energy system analysis.* [Energy](#), Vol 34(5), pp. 636-644, May 2009.
- Lund, H. Salgi, G. Elmegaard, B. Andersen, A.N. *Optimal operation strategies of compressed air energy storage (CAES) on electricity spot markets with fluctuating prices.* [Applied Thermal Engineering](#), Vol 29 (59), pp. 799-806, April 2009.
- Blarke, M.B. Lund, H. *The effectiveness of storage and relocation options in renewable energy systems.* [Renewable Energy](#), Vol. 33 (7), pp. 1499-1507, July 2008.
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- Mathiesen, BV. Lund, H. Nørgaard, P. *Integrated transport and renewable energy systems.* [Utilities Policy](#), Vol 16 (2), pp. 107-116, June 2008.
- Clark, W. Lund, H. *Integrated technologies for sustainable stationary and mobile energy infrastructures.* [Utilities Policy](#), Vol 16 (2), pp. 130-140, June 2008.
- Salgi, G. Lund, H. *System behaviour of compressed-air energy-storage in Denmark with a high penetration of renewable energy sources.* [Applied Energy](#), Vol 85(4), pp. 182-189, April 2008.
- Rasburskis, N. Lund, H. Prieskienis, Š. *Optimization methodologies for national small-scale CHP strategies (the case of Lithuania).* [ENERGETIKA](#) Vol 53 (3), pp. 16–23. 2007. [Link](#)
- Blarke, M.B. Lund, H. *Large-scale heat pumps in sustainable energy systems: system and project perspectives.* [Thermal Science](#), Vol 11(3), pp. 141–152, September 2007.
- Mathiesen, BV. Lund, H. *Energy system analysis of fuel cells and distributed generation.* In: [Fuel Cell and Distributed Generation](#). red. / Francisco Jurado Melguizo. Kerala, India : Research Signpost, pp. 111-127, 2007
- Lund, H. Duić, N. Krajačić, G and Carvalho, M. *Two energy system analysis models: A comparison of methodologies and results.* [Energy](#), Vol 32(6), pp. 948-954, June 2007.
- Andersen, A.N. and Lund, H. *New CHP Partnerships Offering Balancing of Fluctuating Renewable Electricity Productions.* [Journal of Cleaner Production](#), Vol 15(3), pp. 288-293, February 2007.
- Clark, W and Lund, H. *Sustainable development in practice.* [Journal of Cleaner Production](#), Vol 15(3), pp. 253-258, February 2007.

- Lund, H. *The Kyoto mechanisms and technological innovations*. [Energy](#), Vol 31(13), pp 1989-1996, October 2006.
- Lund, H. Münster, E. *Integrated transportation and energy sector CO₂ emission control strategies*. [Transport Policy](#), Vol 13(5), pp. 426-433, September 2006.
- Lund, H. and Münster, E. *Integrated energy systems and local energy markets*. [Energy Policy](#), Vol 34(10), pp 1152-1160 2006.
- Lund, H. *Large-scale integration of optimal combinations of PV, wind and wave power into the electricity supply*. [Renewable Energy](#), Vol 31(4), pp 503-515, 2006.
- Lund, H. *Book review W.W. Clark II and Ted Bradshaw, Agile Energy Systems Global Lessons from the California Energy Crisis*. [Journal of Cleaner Production](#), Vol 14 (1), pp. 106-108, 2006.
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- Lund, H. *Large-scale integration of wind power into different energy systems*. [Energy](#), Vol 30 (13), pp. 2402-2412, 2005.
- Lund, H. and Andersen, A.N. *Optimal designs of small CHP plants in a market with fluctuating electricity prices*. [Energy Conversion and Management](#), Vol 46 (6), pp. 893-904, 2005.
- Lund, H. *Electric grid stability and the design of sustainable energy systems*. *International Journal of Sustainable Energy*, Vol 24 (1), pp. 45-54, 2004
- Lund, H. and Münster, E. *The EnergyPLAN model: CHP and wind power system analysis*. In: *Sustainable Development of Energy, Water and Environmental Systems*, pp. 291-299. ISBN: 90 5809 662 9. Balkema Publishers, Swets & Zeitlinger, Lisse, The Netherlands, 2004
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- Lund H, Münster E *Management of surplus electricity-production from a fluctuating renewable-energy source*, *Applied Energy* , vol. 76, issues 1-3, pp. 65-74, 2003
- Lund H, Hvelplund F, Nunthavorakarn S *Feasibility of a 1400 MW coal-fired power-plant in Thailand* *Applied Energy* , vol. 76, issues 1-3, pp. 55-64, 2003
- Lund H, Münster E *Modelling of energy systems with a high percentage of CHP and wind power* *Renewable energy* 28, pp. 2179-2193, 2003.
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- Lund H, Clark W W *Management of fluctuations in wind power and CHP comparing two possible Danish strategies* *Energy the international journal* vol. 27, pp 471-483, 2002.
- Clark W W, Lund H *Civic markets: the case of the California energy crisis* *Int. J. Global Energy Issues*, vol. 16, No 4, pp. 328-344, 2001
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- Lund H, Hvelplund F, Kass I, Dukalskis E, Blumberga D *District heating and market economy in Latvia* *Energy the international journal* vol. 24, pp 549-559, 1999.
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- Lund H *Implementation of Energy-conservation policies: the case of electric heating conversion in Denmark* *Applied Energy* vol. 64, pp 117-127, 1999
- Lund H *A Green Energy Plan for Denmark, Job creation as a strategy to implement Both Economic Growth and a CO₂ Reduction* *Environmental and Resource Economics* vol. 14, pp 431-439, 1999.

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- Lund H, Hvelplund F, *Energy, Employment and the Environment: Towards an Integrated Approach* European Environment, vol. 8, no 2, pp 33-40, 1998.
- Lund H, *Environmental Accounts for Households: a method for improving public awareness and participation* Local Environment, vol. 3, no 1, pp 43-54, 1998.
- Christensen P, Lund H, *Conflicting Views of Sustainability: The Case of Wind Power and Nature Conservation in Denmark* European Environment, vol. 8, no 1, pp 1-6, 1998.
- Lund H, Hvelplund F *Does Environmental Impact Assessment Really Support Technological Change? Analyzing Alternatives to Coal-fired Power Stations in Denmark* Environmental Impact Assessment Review vol. 71 September 1997.