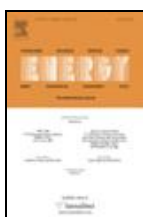


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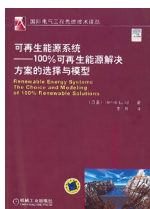
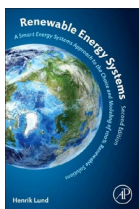
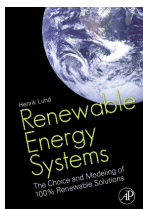


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Thomson Reuters Highly Cited Researcher within Engineering 2014, 2015, 2016, 2017 and 2018: <http://highlycited.com/>



Member of The Danish Academy of Technical Sciences (ATV)  
<http://www.atv.dk/en/>

	<p>Advanced energy system analysis computer model</p> 	<p>Architect behind the Advanced Energy System Analysis Model EnergyPLAN. Download freely from: <a href="http://www.EnergyPLAN.eu">www.EnergyPLAN.eu</a></p>
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	<p>Promoter of the "Smart Energy Systems" concept: <a href="http://www.energyplan.eu/smartenergysystems">http://www.energyplan.eu/smartenergysystems</a> See video: <a href="https://www.youtube.com/watch?v=eiBi4DaYOM">https://www.youtube.com/watch?v=eiBi4DaYOM</a></p>
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### Summary:

Henrik Lund (born 2 July 1960) is a Danish **engineer** (M.Sc.Eng.1985) and **Professor in Energy Planning** at Aalborg University in Denmark. He holds a **Ph.D.** in Implementaion of Sustainable Energy Systems (1990), and a **Dr.Techn.** in Choice Awareness and Renewable Energy Systems (2009). Henrik Lund is a highly ranked world leading researcher. He is listed among [ISI Highly Cited](#) researchers ranking him among the **top 1% researchers in the world** within engineering. Henrik Lund has many years of **management experience** as head of department for approx. 200 staff persons (1996-2002), head of section for approx. 50 persons (2014 – 2016) and head of research group of 20-30 persons (2002 – present). During his time the **Sustainable Energy Planning research group at Aalborg University** has now grown to approx. 30 staff members including 5 professors.

### Publications and Citations (February 2019):

- Thomson Reuters Highly Cited Researcher within Engineering since 2014: [Link](#)
- Web of Knowledge: 98 Articles and h index = 45 (8000+ citations) [Link to ResearcherID](#)
- Scopus: 136 articles and h index = 51 (10000+ citations) [Link to Scopus](#)
- Research Gate: 173 publications and h index = 53 (11000+ citations) [Link to ResearchGate](#)
- Google Scholar: 400+ publications and h index = 56 (15000+ citations) [Link to GoogleScholar](#)

### Primary University Education:

- Dr.Techn. Choice Awareness and Renewable Energy Systems, Aalborg University 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

### Academic Employments:

- Professor, Aalborg University 2006 – present.
- Associate Professor, Aalborg University 1993 - 2006.
- 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.

### Vising Professor Positions:

- Visiting Professor, Shanghai Jiao Tong University, Shanghai, China, November 2019
- Visiting Professor, Shanghai Jiao Tong University, Shanghai, China, November 2015
- Visiting Professor, Università degli Studi di Napoli "Parthenope", Napoli, Italy, February 2015
- Visiting Professor, Shanghai Jiao Tong University, Shanghai, China, October 2011
- Visiting Professor, Tsinghua University, Beijing, China, September 2010
- Libra Professor, University of Main at Fork Kent, April 2010

### Management Positions:

- Head of Research Group (staff = approx. 30 persons) 2016 – present.
- Head of Section (staff = approx. 50 persons), 2014 – 2016.
- Member of Academic Council 2008 – present.
- Member of the Faculty Council 2002-2008
- Head of Research Group (staff = approx. 20 persons) 2002 – 2014.
- Head of Department (Staff = approx. 200 persons) 1996 – 2002.

- Member of the faculty council 2002-2008

**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 – 2018.
- 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 Deveopment in Practice*, [Volume 15, Issue 3, February 2007](#).
- Guest Editor of Special Issue of [Utilities Policy](#) on *Sustianable Energy and Tranportation 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:**

- Research Council for Natural Sciences and Engineering at the Academy of Finland (2018-2019)
- Linnaeus University, Sweden (2017)
- Research Council of Norway (2016)
- Tallinn University of Technology (2016)
- Research Council for Natural Sciences and Engineering at the Academy of Finland (2015)
- European Research Council (2013 and 2015 and 2016)
- Research Council for Natural Sciences and Engineering at the Academy of Finland (2015)

- Strategic Public Policy Research Grants Council of Hong Kong (2011)
- Science Foundation Ireland (2010)
- The Faroese Research Council (2010)
- The National Priorities Research Pr. ([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 Hjermitselev 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 4<sup>th</sup> 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: [www.4dh.dk](http://www.4dh.dk)
- 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 6<sup>th</sup> 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.

#### **Member of conference scientific boards (Typically annual or bi-annual conferences):**

- Conference chair of the international conferences of Smart Energy Systems and 4<sup>th</sup> Generation District Heating (SES4DH) 2015 and onwards: [www.4dh.dk](http://www.4dh.dk)
- Member of Scientific Advisory Board to the Conferences on Sustainable Development of Energy, Water and Environment Systems SDEWES, 2005 and onwards: [www.sdewes.org](http://www.sdewes.org)
- Member of international Scientific committee of the Conferences on Process Integration, Modelling and Optimization for Energy Saving and Pollution Reduction (PRESS) 2010 and onwards: [www.conferencepres.com/](http://www.conferencepres.com/)
- Member of Scientific committee to the international conferences of Contemporary Problems of Thermal Engineering (CPOTE) 1998 and onwards: [www.itc.polsl.pl/CPOTE2016](http://www.itc.polsl.pl/CPOTE2016)
- Member of Scientific Committee of the International Conferences on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS) 2010 and

- onwards. [www.ecos2016.si](http://www.ecos2016.si)
- Member of Scientific Committee of the International Conferences on Energy & Environment: bringing together Economics and Engineering (ICEE) 2013 and onwards: [www.fep.up.pt/conferences/icee](http://www.fep.up.pt/conferences/icee)
- Member of international Scientific committee of the Conferences Sustainable Energy and Environmental protection (SEEP) 2009 and onwards: [www.seepconference.co.uk](http://www.seepconference.co.uk)

#### **Appointments/special invitations:**

- Member of Board of Directors of IEF, [International Energy Foundation](http://www.internationalenergyfoundation.org), 2005-present.
- 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.
- 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](http://www.EnergyPLAN.eu).

#### **Teaching Experience:**

- Teaching experience at all levels of engineering education from first semester courses to PhD courses at Aalborg University, 1985-present.
- Various guest lectures at among others: Shanghai Jiao Tong University (2011 and 2015); GMIT Galway (2015); Università degli Studi di Napoli "Parthenope" (2015); Ångström Laboratory Uppsala University (2014); Institute of Engineering (IOE) Nepal (2014); University of the West of Scotland's Paisley campus, Glasgow (2014); University of Limerick (2011); Tsinghua University, Beijing (2010); University of Main at Fork Kent (2010).
- PhD course as Visiting Professor, Università degli Studi di Napoli "Parthenope", Napoli, Italy, February 2015
- 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" in Lithuania, Latvia and Estonia, 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.en.plan.aau.dk/henriklund/publications/>

- Approx. 130 articles in refereed international journals (1997-2018).
- Approx. 50 papers and presentations in mostly refereed international proceedings (1986-2015).
- 40 books and reports on energy planning (1983-2015).
- More than 75 articles and book chapters (1983-2015).

#### **Scientific journal papers (1997-2018):**

- H. Lund, N. Duic, P.A Østergaard, B.V Mathiesen: [Future district heating systems and technologies: On the role of smart energy systems and 4th generation district heating](#). *Energy*, Vol 165, Part A, December 2018, pp 614-619.

- H. Lund, P.A Østergaard, M. Changa, S. Werner, S. Svendsen, P. Sorknæs, J. E. Thorsen, F. Hvelplund, B.G Mortensen, B.V Mathiesen, C. Bojesen, N. Duic, X. Zhang, B. Möller: [The status of 4th generation district heating: Research and results](#). *Energy*, Vol 164, December 2018, pp 147-159.
- P. Cabrera, H. Lund, J.A Carta: [Smart renewable energy penetration strategies on islands: The case of Gran Canaria](#). *Energy*, Vol 162, , pp 421-443, November 2018.
- L. Krog, K. Sperling, H. Lund: [Barriers and Recommendations to Innovative Ownership Models for Wind Power](#). *Energies*, Vol 11(10), October 2018.
- S. Paardekooper, R. Lund and H. Lund: [Smart Energy Systems](#), Chapter in [Energy Storage Options and Their Environmental Impact](#), editors: R E Hester, R M Harrison. Royal Society of Chemistry 2018, pp 228-260, October 2018.
- H. Lund, N. Duic, P.A Østergaard, B.V Mathiesen: [Smart Energy and District Heating: Special Issue dedicated to the 2016 Conference on Smart Energy Systems and 4th Generation District heating](#). Vol 160, pp 1220-1223, October 2018.
- T.W. Brown, T. Bischof-Niemz, K. Blok, C. Breyer, H. Lund, B.V. Mathiesen: [Response to 'Burden of proof: A comprehensive review of the feasibility of 100% renewable-electricity systems'](#). *Renewable & Sustainable Energy Reviews*, Vol 92, pp 834-847, September 2018.
- D. Conolly, H. Lund: [Smart Energy Systems](#). *The SAGE Encyclopedia of the Internet*, pp 791-793, June 2018.
- H. Lund: [Renewable heating strategies and their consequences for storage and grid infrastructures comparing a smart grid to a smart energy systems approach](#). *Energy*, Vol 151, pp 94-102, May 2018. [Corrigendum](#), *Energy*, Vol 153, pp 1087, June 2018.
- H. Lund, P. Sorknæs, B.V. Mathiesen, K. Hansen: [Beyond sensitivity analysis: A methodology to handle fuel and electricity prices when designing energy scenarios](#). *Energy Research & Social Science*, Vol 39, pp 108-116, May 2018.
- N. Markovska, N. Duić, B.V. Mathiesen, Z. Guzović, H. Schlör, I.B. Bjelić, H. Lund: [Shedding light on energy transition: Special issue dedicated to 2016 conferences on sustainable development of energy, water and environment systems](#). *Energy*, Vol 144, pp 322-325, February 2018.
- H. Lund, P.A Østergaard: [Chapter 7 – Sustainable Towns: The Case of Frederikshavn Aiming at 100% Renewable Energy](#). *Sustainable Cities and Communities Design Handbook (Second Edition)*, pp 129-146, January 2018.
- JZ Thellufsen, H Lund: [Cross-border versus cross-sector interconnectivity in renewable energy systems](#). *Energy*, Vol 124, pp. 492-501, April 2017.
- A David, B. V. Mathiesen, H Averfalk, S Werner, H Lund: [Heat Roadmap Europe: Large-Scale Electric Heat Pumps in District Heating Systems](#). *Energies*, Vol 10 (4) April 2017.
- H Lund, P. A. Østergaard, D Connolly, B. V. Mathiesen: [Smart energy and smart energy systems](#). *Energy*, May 2017.
- H Lund, F Arler, P. A. Østergaard, F Hvelplund, D Connolly, B. V. Mathiesen, P Karnøe: [Simulation versus Optimisation: Theoretical Positions in Energy System Modelling](#). *Energies*, Vol 10 (7), July 2017.
- H Lund, P. A. Østergaard: [Smart District Heating and Electrification](#). *International Journal of Sustainable Energy Planning and Management*, Vol 12, pp. 1-4, January 2017.
- H Lund, PA Østergaard, D Connolly, I Ridjan, BV Mathiesen, F Hvelplund, JZ Thellufsen, P Sorknæs: [Energy Storage and Smart Energy Systems](#). *International Journal of Sustainable Energy Planning and Management Vol. 11*, March 2016.
- D Connolly, H Lund, BV Mathiesen. Smart Energy Europe: [The technical and economic impact of one potential 100% renewable energy scenario for the European Union](#). *Renewable and Sustainable Energy Reviews*, Vol 60, pp. 1634–1653, July 2016.
- H Lund, N Duic, PA Østergaard and BV Mathiesen. [Smart energy systems and 4th generation district heating](#). *Energy*, Vol 110, p. 1-4, 1. September 2016.
- PA Østergaard, H Lund, BV Mathiesen. [Smart energy systems and 4th generation district heating](#). *International Journal of Sustainable Energy Planning and Management*, Vol 10, pp. 1-2, 2016.
- H Lund, P Ferreira, I Soares. [Towards low carbon energy systems: Engineering and economic perspectives](#). *Energy*, Volume 115 part 2, p. 1345–1346, November 2016.

- L Grundahl, S Nielsen, H Lund, B Möller. [Comparison of district heating expansion potential based on consumer-economy or socio-economy](#). *Energy*, Volume 115 part 3, p. 1771–1778, November 2016.
- K Hansen, D Connolly, H Lund, D Drysdale, J Z Thellufsen. [Heat Roadmap Europe: Identifying the balance between saving heat and supplying heat](#). *Energy*, Volume 115 part 3, p. 1663–1671, November 2016.
- N Markovska, N Duić, B. V Mathiesen, Z Guzović, A Piacentino, H Schlör, H Lund: [Addressing the main challenges of energy security in the twenty-first century – Contributions of the conferences on Sustainable Development of Energy, Water and Environment Systems](#). Volume 115, part 3 p. 1503-1790, November 2016.
- JZ Thellufsen, H Lund: [Roles of local and national energy systems in the integration of renewable energy](#). *Applied Energy*, Volume 183, Pages 1-1730, December 2016.
- T. Novosel, B. Ćosić, T. Pukšec, G. Krajačić, N. Duić, B.V. Mathiesen, H. Lund, M. Mustafa. [Integration of renewables and reverse osmosis desalination – Case study for the Jordanian energy system with a high share of wind and photovoltaics](#). *Energy*, Vol 92 (3), pp. 270-278, December 2015.
- Jakob Zinck Thellufsen, Henrik Lund. [Energy saving synergies in national energy systems](#). *Energy Conversion and Management*, Vol 103, pp. 259-265, October 2015.
- Robert Mikulandric, Goran Krajačić, Neven Duić, Gennadii Khavin, Henrik Lund, Brian Vad Mathiesen. [Performance Analysis of a Hybrid District Heating System: a Case Study of a Small Town in Croatia](#). *Journal of Sustainable Development of Energy, Water and Environment Systems*, Vol 3 (3), pp. 282-302, September 2015.
- B.V. Mathiesen, H. Lund, D. Connolly, H. Wenzel, P.A. Østergaard, B. Möller, S. Nielsen, I. Ridjan, P. Karnøe, K. Sperling and F.K. Hvelplund. [Smart Energy Systems for coherent 100% renewable energy and transport solutions](#). *Applied Energy*, Vol 145, pp. 139–154, May 2015.
- D. Connolly, H. Lund and B.V: Mathiesen. Modeling and Simulation of Smart Energy Systems. In: Handbook of Clean Energy Systems. Chapter 24, pp. 3403-3430 (Wiley, ISBN 9781118991978), April 2015
- Peter Sorknæs, Henrik Lund and Anders N. Andersen. [Future power market and sustainable energy solutions – The treatment of uncertainties in the daily operation of combined heat and power plants](#). *Applied Energy*, Vol 144, pp. 129–138, April 2015.
- W. Xionga, Y. Wanga, B.V. Mathiesen, H Lund and X. Zhang. [Heat roadmap China: New heat strategy to reduce energy consumption towards 2030](#). *Energy*, Vol 81, pp. 274–285, March 2015.
- Henrik Lund, Jakob Zinck Thellufsen, Søren Aggerholm, Kim Bjarne Wittchen, Steffen Nielsen, Brian Vad Mathiesen, Bernd Möller. [Heat Saving Strategies in Sustainable Smart Energy Systems](#). *International Journal of Sustainable Energy Planning and Management*, Vol 4, pp. 3-16, 2014.
- Peter Sorknæs, Henrik Lund, Anders N Andersen, Peter Ritter. [Small-scale combined heat and power as a balancing reserve for wind – The case of participation in the German secondary control reserve](#). *International Journal of Sustainable Energy Planning and Management*, Vol 4, pp. 31-44, 2014.
- H. Lund, B.V. Mathiesen, D. Connolly, P.A. Østergaard. *Renewable Energy Systems - A Smart Energy Systems Approach to the Choice and Modelling of 100 % Renewable Solutions*. *Chemical Engineering Transactions*, Vol. 39, 2014
- I. Soares, P. Ferreira and H. Lund. [Energy & Environment: Bringing together Economics and Engineering \(Editorial\)](#). *Energy*, Vol 69, pp. 1-2, May 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, B.V. *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, B.V. 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.
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  - 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, D.I. 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, B.V. 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.
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