

David Connolly Publications

Below is a list of my publications divided by the type including peer-reviewed journal articles (divided by first and co-authored articles), conference proceedings, key presentations, media activities, book chapters, patents, reports, brochures, and posters. In total, my peer-reviewed journal articles have received over 850 citations and I have a h-index of 12 (updated November 2015).

Journal Articles (First Author)

1. Connolly D, Lund H, Mathiesen BV, Leahy M. A review of computer tools for analysing the integration of renewable energy into various energy systems. *Applied Energy* **2010**;87(4):1059-1082.
2. Connolly D, MacLaughlin S, Leahy M. Development of a computer program to locate potential sites for pumped hydroelectric energy storage. *Energy* **2010**;35(1):375-381.
3. Connolly D, Lund H, Mathiesen BV, Leahy M. Modelling the existing Irish energy-system to identify future energy costs and the maximum wind penetration feasible. *Energy* **2010**;35(5):2164-2173.
4. Connolly D, Lund H, Mathiesen BV, Leahy M. The first step towards a 100% renewable energy-system for Ireland. *Applied Energy* **2011**;88(2):502-507.
5. 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* **2011**;39(7):4189-4196.
6. 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* **2012**;43:47-60.
7. Connolly D, Lund H, Mathiesen BV, Werner S, Möller B, Persson U, Boermans T, Trier D, Østergaard PA, Nielsen S. Heat Roadmap Europe: Combining district heating with heat savings to decarbonise the EU energy system. *Energy Policy* **2014**;65:475-489.
8. Connolly D, Mathiesen BV. A technical and economic analysis of one potential pathway to a 100% renewable energy system. *International Journal of Sustainable Energy Planning and Management* **2014**;1.
9. Connolly D, Green Plan Ireland: our chance to become 100% renewable. *Engineers Journal* **2014**.
10. Connolly D, Mathiesen BV, Ridjan I. A comparison between renewable transport fuels that can supplement or replace biofuels in a 100% renewable energy system. *Energy* **2014**;73:110-125.
11. Connolly D, Lund H, Mathiesen BV. Smart Energy Europe: the technical and economic impact of one potential 100% renewable energy scenario for the European Union. *Renewable and Sustainable Energy Reviews* **2016**;60:1634-1653.

Journal Articles (Co-authored)

1. Finn P, Fitzpatrick C, Connolly D, Leahy M, Relihan L. Facilitation of Renewable Electricity using Price Based Appliance Control. *Energy* **2011**;36(5):2952-2960.
2. Finn P, Fitzpatrick C, Connolly D. Demand side management of electric car charging: Benefits for consumer and grid. *Energy* **2012**;42(1):358-363.
3. Lund H, Andersen AN, Østergaard PA, Mathiesen BV, Connolly D. From electricity smart grids to smart energy systems - A market operation based approach and understanding. *Energy* **2012**;42(1):96-102.
4. Mathiesen BV, Lund H, Connolly D. Limiting biomass consumption for heating in 100% renewable energy systems. *Energy* **2012**;48(1):160-168.

5. Mathiesen BV, Sperling K, Hvelplund F, Lund H, Möller B, Nielsen S, Connolly D. Solceller i fremtidens danske energisystem. *Vedvarende energi og miljø* **2012**;6:10-11.
6. Ridjan I, Mathiesen BV, Connolly D, Duić N. The feasibility of synthetic fuels in renewable energy systems. *Energy* **2013**;57:76-84.
7. Lund H, Connolly D, Nielsen S, Möller B, Mathiesen BV, Østergaard PA. Heat Roadmap Europe II: Fjernvarme skaber job og hjælper Europas CO2-mål. *Fjernvarmen* **2013**;6:30-31.
8. Ridjan I, Mathiesen BV, Connolly D. Synthetic fuel production costs by means of solid oxide electrolysis cells. *Energy* **2014**;76:104-113.
9. Lund H, Mathiesen BV, Connolly D, Østergaard PA. Renewable Energy Systems - A Smart Energy Systems Approach to the Choice and Modelling of 100 % Renewable Solutions. *Chemical Engineering Transactions* **2014**;39.
10. Waenn A, Connolly D, Ó Gallachóir B. Investigating 100% renewable energy supply at regional level using scenario analysis. *International Journal of Sustainable Energy Planning and Management* **2014**;3:12.
11. Mathiesen BV, Lund H, Connolly D, Wenzel H, Østergaard PA, Möller B, Nielsen S, Ridjan I, Karnøe P, Sperling K, Hvelplund FK. Smart Energy Systems for coherent 100% renewable energy and transport solutions. *Applied Energy* **2015**;145:139-154.
12. Ridjan I, Mathiesen BV, Connolly D. Terminology used for renewable liquid and gaseous fuels based on the conversion of electricity: a review. *Journal of Cleaner Production* **2016**;112:3709-3720.
13. Hansen K, Connolly D, Lund H, Drysdale D, and Thellufsen JZ. Heat Roadmap Europe: Identifying the balance between saving heat and supplying heat. *Energy* **2016**;115:1663-1671.
14. Zakeri B, Virasjoki V, Syri S, Connolly D, Mathiesen BV, Welsch M. Impact of Germany's energy transition on the Nordic power market – A market-based multi-region energy system model. *Energy* **2016**;115:1640-1662.
15. Lund H, Østergaard PA, Connolly D, Ridjan I, Mathiesen BV, Hvelplund F, Thellufsen JZ, Sorknæs P. Energy Storage and Smart Energy Systems. *International Journal of Sustainable Energy Planning and Management*: **2016**;11:3-14.

Reviewer for the Following Journals

I am on the editorial board of the *International Journal of Sustainable Energy Planning and Management* and I am a reviewer for a variety of international journals, including:

1. ENERGY, The International Journal
2. Energy Policy
3. Energy Conversion & Management
4. Applied Energy
5. Energy Economics
6. IEEE Sustainable Energy
7. IEEE Power and Energy Society
8. Journal of Environment Development & Sustainability
9. Journal of Simulation Modelling Practice and Theory
10. International Journal of Electrical Power and Energy Systems
11. Energy Research and Social Science

Conference Proceedings

1. Connolly D, Lund H, Mathiesen BV, Leahy M. Developing a Model of the Irish Energy-System. In: Proceedings of the Joint Action on Climate Change, Aalborg, Denmark, 8-10 June **2009**.
2. Connolly D, Lund H, Mathiesen BV, Leahy M. Ireland's pathway towards a 100% renewable energy-system: The first step. In: Proceedings of the 5th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems, Dubrovnik, Croatia, 29 September – 3 October, **2009**.
3. Connolly D, MacLaughlin S, Leahy M. Locating Potential Sites for Pumped Hydroelectric Energy Storage. In: Proceedings of the Electrical Energy Storage Applications and Technologies (EESAT) Conference, Seattle, USA, 4-7 October **2009**.
4. Foley AM, Connolly D, Leahy PG, Mathiesen BV, Lund H, Leahy M, McKeogh EJ. Electrical Energy Storage & Smart Grid Technologies to Integrate the next generation of Renewable Power Systems. In: Proceedings of the SEEP2010. Bari, Italy, 29 June - 2 July, **2010**.
5. Connolly D, Lund H, Mathiesen BV, Finn P. Developing a regional energy plan for two counties in Ireland. In: Proceedings of the 6th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 25-29 September, **2011**.
6. Mathiesen BV, Lund H, Connolly D. Heating technologies for limiting biomass consumption in 100% renewable energy systems. In: Proceedings of the 6th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 25-29 September, **2011**.
7. Connolly D, MacLaughlin S. Locating Sites for Pumped Hydroelectric Energy Storage. In: Proceedings of the International Conference on Sustainable Energy Storage. Belfast, Northern Ireland, 21-24 February, **2011**.
8. Ridjan I, Mathiesen BV, Connolly D, Duić N. Feasibility of synthetic fuels in renewable energy systems. In: Proceedings of the poster session at the Austrian-Croatian-Hungarian Combustion Meeting. Zagreb, Croatia, **2012**.
9. Ridjan I, Mathiesen BV, Connolly D, Duić N. The feasibility of synthetic fuels in renewable energy systems. In: Proceedings of the 7th Conference on Sustainable Development of Energy, Water and Environment Systems. Ohrid, Macedonia, 1-7 July, **2012**.
10. Mathiesen BV, Lund H, Hvelplund F, Connolly D, Bentsen NS, Felby C, Morthorst PE, Astrup T, Tonini D, Meyer NI, Münster M, Hansen L-LP, Heussen K, Andersen F, Wenzel H, Hamelin L, Munksgaard J. Det intelligente energisystem (The Intelligent Energy System). In: Proceedings of the Robust and Sustainable Bioenergy. Fredericia, Denmark, 5 December 2012, **2012**.
11. Mathiesen BV, Connolly D, Henrik L, Nielsen MP, Schaltz E, Wenzel H, Bentsen NS, Felby C, Kaspersen P, Hansen K. Biomasse til transportsektoren (Biomass for the Transport Sector). In: Proceedings of the Robust and Sustainable Bioenergy. Fredericia, Denmark, 5 December 2012, **2012**.
12. Connolly D, Lund H, Mathiesen BV, Werner S, Möller B, Persson U, Trier D, Østergaard PA, Nielsen S. The role of district heating in decarbonising the EU energy system and a comparison with existing strategies. In: Proceedings of the 8th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 22-27 September, **2013**.
13. Mathiesen BV, Lund H, Connolly D, Wenzel H, Østergaard PA, Möller B. The design of Smart Energy Systems for 100% renewable energy and transport solutions. In: Proceedings of the Proceedings of the 8th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 22-27 September, **2013**.

14. Wänn A, Connolly D, Ó'Gallachóir B. Moving from national to regional energy planning using EnergyPLAN. In: Proceedings of the Proceedings of the 8th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 22-27 September, **2013**.
15. Grandal RD, Wenzel H, Mathiesen BV, Connolly D. One million ton of hydrogen is the key piece in the Danish renewable energy puzzle. In: Proceedings of the Proceedings of the 8th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 22-27 September, **2013**.
16. Ridjan I, Mathiesen BV, Connolly D. Energy system analysis of Solid Oxide Electrolysis Cells for fuel production. In: Proceedings of the Proceedings of the 8th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 22-27 September, **2013**.
17. Connolly D, Mathiesen BV, Lund H. A 100% renewable energy scenario for Europe using a Smart Energy System approach. In: Proceedings of the 10th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 27 September - 2 October, **2015**.
18. Zakeri B, Syri S, Connolly D, Mathiesen BV, Welsch M. Impact of Energy Transition in Germany on the Nordic Power Market – A Blessing or Curse? In: Proceedings of the 10th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 27 September - 2 October, 2015.
19. Connolly D, Drysdale D, Hansen K, Novosel, T. Creating hourly distributions at national level for various energy demands and renewable energy supplies. In: Proceedings of the 10th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 27 September - 2 October, **2015**.
20. Hansen K, Connolly D, Lund H, Drysdale D, Thellufsen, JZ. Heat Roadmap Europe: Balancing heat supply and heat savings for various European countries. In: Proceedings of the 10th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 27 September - 2 October, **2015**.

Presentations

1. Energy Storage Techniques, Danish Society of Engineers, Aalborg, Denmark, 11th February **2009**.
2. Developing a Model of the Irish Energy-System. Joint Action on Climate Change. Aalborg, Denmark, 8-10 June, **2009**.
3. Ireland's pathway towards a 100% renewable energy-system: The first step. 5th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 29 September - 3 October, **2009**.
4. Locating Potential Sites for Pumped Hydroelectric Energy Storage. Electrical Energy Storage Applications and Technologies (EESAT) Conference. Seattle, USA, 4-7 October, **2009**.
5. Ireland's pathway towards a 100% renewable energy-system: The first step. Zero Carbon Society, Dublin, Ireland, 4th November **2009**.
6. The Integration of Fluctuating Renewable Energy in Ireland Using Energy Storage, Charles Parsons Initiative Conference, 10th September **2010**.
7. Locating Sites for Pumped Hydroelectric Energy Storage. International Conference on Sustainable Energy Storage. Belfast, Northern Ireland, 21-24 February, **2011**.
8. The Integration of Fluctuating Renewable Energy Using Energy Storage. This presentation was made to numerous institutions in Ireland upon completion of my PhD including:

- Sustainable Energy Authority of Ireland, 17th February **2011**
 - Spirit of Ireland Seminar, 8th March **2011**
 - University College Cork, 22nd March **2011**
 - ESB International 24th March **2011**
 - Irish Grid Solutions, 4th April **2011**
9. Locating Sites for Pumped Hydroelectric Energy Storage, Meitheal Na Gaoithe Annual Conference, Galway, Ireland, 6th May **2011**.
 10. Local Energy Planning: Status and Opportunity, Dáil Éireann, Dublin, Ireland, 19th July **2011**.
 11. Developing a regional energy plan for two counties in Ireland. 6th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 25-29 September, **2011**.
 12. Locating Sites for Pumped Hydroelectric Energy Storage, Joint Research Centre Symposium, Petten, The Netherlands, 2nd April **2012**.
 13. Heat Roadmap Europe: Pre-Study 1, 4th Generation of District Heating Research Seminar, Aalborg, Denmark, 3rd Oct **2012**.
 14. The Dispatch of Electricity Storage on Deregulated Electricity Markets, International Research Energy Storage Conference, Berlin, Germany, 13th November **2012**.
 15. Heat Roadmap Europe: Pre-Study 2, Euroheat & Power Board Meeting, Brussels, Belgium, 9th January **2013**.
 16. Heat Roadmap Europe: Pre-Study 2, Euroheat & Power Board Meeting, Brussels, Belgium, 19th March **2013**.
 17. Heat Roadmap Europe 2050, Decarbonising the European heating and cooling markets, Joint Research Centre Symposium, Petten, The Netherlands, 11th April **2013**.
 18. Heat Roadmap Europe 2050, Decarbonising the European heating and cooling markets, Annual Conference for the European Technology Platform: Renewable Heating & Cooling, Dublin, Ireland, 22nd April **2013**.
 19. Heat Roadmap Europe 2050, DG Energy of the European Commission, Brussels, Belgium, 30th May 2013.
 20. Heat Roadmap Europe and its Role in EU Energy Policy. South Korea District Heating Association. Seoul, South Korea. 1st-5th July **2013**.
 21. The role of district heating in decarbonising the EU energy system and a comparison with existing strategies. 8th Dubrovnik Conference for Sustainable Development of Energy, Water and Environment Systems. Dubrovnik, Croatia, 22-27 September, **2013**.
 22. Heat Roadmap Europe: A Complete Heating Strategy for the EU. EU Parliament Dinner Debate. Brussels, Belgium. 4th December **2013**.
 23. Heat Roadmap Europe. Research Exchange Workshop. International Energy Agency, Paris, France. 4th February **2014**.
 24. EU Energy Round Table. Invited Speaker at the Knowledge 4 Innovation seminar in the European Parliament. The seminar was hosted by Jerzy Buzek, MEP and former President of the European Parliament. The seminar was attended by the European Commissioner for Energy, Günther H. Oettinger, the Director General of DG Energy Dominique Ristori, the Dep. Director General of DG Research & Innovation Rudolf Strohmeier, and the Director of Energy at DG Research & Innovation Andrés Siegler. 19th March **2014**.

25. District Heating in Ireland, Invited by Codema to present the potential role and feasibility of district heating in Ireland to key stakeholders across policy, industry, and research, Dublin, 21 May **2014**.
26. Heat Roadmap Europe, Invited to the Estonian district heating association annual conference to present the findings of the Heat Roadmap Europe project, 10 April **2014**.
27. Green Plan Ireland, Invited to the National University of Ireland Galway to present the Green Plan Ireland study and its findings, which highlight how Ireland can become 100% renewable, 13 October **2014**.
28. District Heating Potential in Europe, Invited by the European Commission to speak at the Concerted Action meeting about the Energy Efficiency Directive, Milan, 16 October **2014**.
29. Smart Energy Systems and 100% Renewable Energy, Invited by the Department of Communications, Energy, and Natural Resources to discuss the future energy system in Ireland and the ongoing energy Green Paper consultation, 2 December **2014**.
30. Smart Energy Systems and the potential for 100% renewable energy in Europe, Invited by the European Climate Foundation to present to a range of NGOs working in Brussels on renewable energy, 3 February **2015**.
31. Heat Days Conference, Invited by the European Commission to present at the high-level conference on heating and cooling in Europe (www.heating-and-cooling-in-europe.eu), 27 February **2015**.
32. European Union Sustainable Energy Week (EUSEW), Invited to three separate events organised by a variety of organisations including the European Commission, United Nations, and Euroheat & Power, 18 June **2015**.

Media Activities

1. Western People, Newspaper, Ireland. "Green Plan Ireland", November **2013**.
2. EurActiv, Online Newspaper, Brussels. "Heat Roadmap Europe", April **2014**.
3. RTÉ One, Radio, Ireland. Marian Finucane Show, "Comparing Copenhagen to Dublin", January **2015**.
4. RTÉ One, Television, Ireland. EcoEye 13, Episode 6 "Green Electricity", February **2015**. (<https://www.youtube.com/watch?v=svzDvqoYEWU>).
5. RTÉ One, Television, Ireland. The Consumer Show, "Renting Accommodation in Copenhagen", March **2015**.
6. RTÉ One, Television, Ireland. EcoEye 14, Episode 8 "Path to Zero Carbon", February **2016**. (<https://www.youtube.com/watch?v=INMOfOaQhYg>).
7. Keynote Speaker at International Conference about Smart Energy Systems, September 2016: Article published by Nordjyske ([Danish Newspaper](#)), Energy Supply ([Online News Agency](#)), AAU ([Press Release](#)), and Danish District Heating Association ([Website](#)).
8. Interview for the European Commission's SETIS Magazine, November **2016**. (<https://setis.ec.europa.eu/publications/setis-magazine/energy-systems-modeling/david-connolly-coordinator-of-h2020-project-heat>)

PhD

- Connolly D. The Integration of Fluctuating Renewable Energy Using Energy Storage. Department of Physics and Energy, University of Limerick, Limerick, **2010**. Available from: <http://www.dconnolly.net/>.

Book Chapters

1. Leahy MJ, Connolly D, Buckley DN, Wind Energy storage Technologies, in Wind Power Generation and Wind Turbine Design, W Tong (ed.). **2009**, WIT Press.
2. Connolly, D and Mathiesen, BV, Renewable Energy Transportation Fuel Pathways: in Renewable Energy Systems: A Smart Energy Systems Approach to the Choice and Modeling of 100% Renewable Solutions, 2nd Edition, H. Lund. Academic Press, Elsevier, Burlington, Massachusetts, USA, **2014**.
3. Hvelplund F, Østergaard P, Möller B, Mathiesen BV, Connolly D, Andersen AN. Analysis : Smart Energy Systems and Infrastructures: in Renewable Energy Systems: A Smart Energy Systems Approach to the Choice and Modeling of 100% Renewable Solutions, 2nd Edition, H. Lund. Academic Press, Elsevier, Burlington, Massachusetts, USA, **2014**.
4. Connolly D, Lund H, Mathiesen BV. Modeling and Simulation of Renewable Energy Systems, in Handbook of Clean Energy Systems, J Yan, **2015**, Wiley.

Patents

1. David Gerard Connolly & Robert Pius Lilly, A Dolly, Irish Short-Term Patent Application No. S2011/0226.

Reports

1. Connolly D, Leahy M. A Review of Energy Storage Technologies: For the integration of fluctuating renewable energy. University of Limerick, **2009**. See also: <http://www.dconnolly.net/publications.html>.
2. Connolly D, Lund H, Mathiesen BV. Modelling the Irish Energy-System: Data Required for the EnergyPLAN Tool. University of Limerick, **2009**. See also: <http://www.dconnolly.net/publications.html>.
3. Connolly D, Lund H, Mathiesen BV. A User's Guide to EnergyPLAN. Aalborg University, University of Limerick, **2010**. See also: <http://energy.plan.aau.dk/manual.php>.
4. Connolly D. The Global Energy Challenge: A Contextual Framework. University of Limerick, **2011**. Available from: <http://www.dconnolly.net/>.
5. Hansen K, Mathiesen BV, Connolly D. Technology and implementation of electric vehicles and plug-in hybrid electric vehicles. Department of Development and Planning, Aalborg University, **2011**. Available from: <http://vbn.aau.dk>.
6. Mathiesen BV, Blarke MB, Hansen K, Connolly D. The role of large-scale heat pumps for short term integration of renewable energy. Department of Development and Planning, Aalborg University, **2011**. Available from: <http://vbn.aau.dk>.
7. Hansen K, Mathiesen BV, Connolly D. Framework conditions and public regulation for wind turbines in the Øresund Region. Department of Development and Planning, Aalborg University, **2011**. Available from: <http://vbn.aau.dk>.
8. Connolly D, Mathiesen BV, Dubuisson X, Hansen K, Lund H, Finn P, Hodgins J. Limerick Clare Energy Plan: Energy and Emissions Balance. Aalborg University and Limerick Clare Energy Agency, **2012**. Available from: <http://www.lcea.ie/>.
9. Connolly D, Mathiesen BV, Dubuisson X, Lund H, Ridjan I, Finn P, Hodgins J. Limerick Clare Energy Plan: Climate Change Strategy. Aalborg University and Limerick Clare Energy Agency, **2012**. Available from: <http://www.lcea.ie/>.

10. Connolly D, Mathiesen BV, Østergaard PA, Möller B, Nielsen S, Lund H, Trier D, Persson U, Nilsson D, Werner S. Heat Roadmap Europe: First pre-study for EU27. Aalborg University, Halmstad University, and Euroheat & Power, **2012**. Available from: <http://vbn.aau.dk/>.
11. Connolly D, Mathiesen BV, Østergaard PA, Möller B, Nielsen S, Lund H, Persson U, Werner S, Grözinger J, Boermans T, Bosquet M, Trier D. Heat Roadmap Europe: Second pre-study. Aalborg University, Halmstad University, Ecofys Germany GmbH, PlanEnergi, and Euroheat & Power, **2013**. Available from: <http://vbn.aau.dk/>.
12. Ridjan I, Mathiesen BV, Connolly D. SOEC pathways for the production of synthetic fuels : The transport case. Aalborg University, **2013**. Available from: <http://vbn.aau.dk/>.
13. Mathiesen BV, Ridjan I, Connolly D, Nielsen MP, Hendriksen PV, Mogensen MB, Jensen SH, Ebbesen SD. Technology data for high temperature solid oxide electrolyser cells, alkali and PEM electrolysers. Aalborg University, **2013**. Available from: <http://vbn.aau.dk/>.
14. Ridjan I, Mathiesen BV, Connolly D. A review of biomass gasification technologies in Denmark and Sweden. Aalborg University, **2013**. Available from: <http://vbn.aau.dk/>.
15. Lund RS, Sperling K, Mathiesen BV, Connolly D. Strategic Energy Planning in the Öresund Region. Aalborg University, 2013. Available from: <http://vbn.aau.dk/>.
16. Mathiesen BV, Connolly D, Lund H, Nielsen MP, Schaltz E, Wenzel H, Bentsen NS, Felby C, Kaspersen P, Hansen K. CEESA 100% Renewable Energy Transport Scenarios towards 2050. Aalborg University, **2014**. Available from: <http://www.ceesa.plan.aau.dk/>.
17. Dubuisson X, Hoyne S, Connolly D, Christensen P. Transition Kerry's Sustainable Energy Community Roadmap: An Action Plan for County Kerry's Transition to 100% Renewable Energy Supply. Transition Kerry, XD Sustainable Energy Consulting Ltd, Limerick Institute of Technology, Aalborg University, and Samsø Energy Academy, **2014**. Available from: <http://www.transitionkerry.org/>.
18. Mathiesen BV, Lund RS, Connolly D, Ridjan I, Nielsen S. Copenhagen Energy Vision: A sustainable vision for bringing a Capital to 100% renewable energy. Aalborg University, **2015**. Available from: <http://vbn.aau.dk/>.
19. Connolly D, Mathiesen BV, Lund H, Möller B, Hvelplund F, Sperling K, Østergaard PA, Werner S. Heat Roadmap Europe: Inputs for Technical Modelling and Policy Recommendations. Aalborg University and Halmstad University, **2014**. Available from: <http://vbn.aau.dk/>.
20. Mathiesen BV, Ridjan I, Hansen K, Connolly D, Wunsch, JH. Applications of SOECs in different types of energy systems: German and Danish case studies. Aalborg University, **2015**. Available from: <http://vbn.aau.dk/>.
21. Connolly D, Hansen K, Drysdale D, Lund H, Mathiesen BV, Werner S, Persson U, Möller B, Wilke OG, Bettgenhäuser K, Pouwels W, Boermans T, Novosel T, Krajačić G, Duić N, Trier D, Møller D, Odgaard AM, Jensen LL. (Heat Roadmap Europe 3 and STRATEGO WP2 Main Report) Enhanced Heating and Cooling Plans to Quantify the Impact of Increased Energy Efficiency in EU Member States: Translating the Heat Roadmap Europe Methodology to Member State Level. Aalborg University, Halmstad University, University of Flensburg, Ecofys, University of Zagreb, and PlanEnergi, **2015**. Available from: <http://www.heatroadmap.eu>.
22. Ridjan I, Hansen K, Sorknæs P, Xu J, Connolly D, Mathiesen BV. Short and Long-Term Role of Electrolysers in Energy Systems, **2016**. Available from: <http://vbn.aau.dk/>.

Brochures

1. Connolly D, Lund H, Mathiesen BV, Østergaard PA, Möller B, Nielsen S, Ridjan I, Hvelplund F, Sperling K, Karnøe P, Carlson AM, Kwon PS, Bryant SM, Sorknæs P. Smart Energy Systems : Holistic and Integrated Energy Systems for the era of 100% Renewable Energy. Sustainable Energy Planning Research Group, Aalborg University, **2013**. Available from: <http://vbn.aau.dk/>.
2. Connolly D, Lund H, Mathiesen BV, Østergaard PA, Möller B, Nielsen S, Ridjan I, Hvelplund F, Sperling K, Karnøe P, Carlson AM, Kwon PS, Bryant SM, Sorknæs P. Fuels for Transport in a 100% Renewable Energy System. Sustainable Energy Planning Research Group, Aalborg University, **2014**. Available from: <http://vbn.aau.dk/>.

Posters

1. Ridjan I, Mathiesen BV, Connolly D, Duić N. Feasibility of synthetic fuels in renewable energy systems. In: Proceedings of the poster session at the Austrian-Croatian-Hungarian Combustion Meeting. Zagreb, Croatia, **2012**. Available from: http://vbn.aau.dk.
2. Ridjan I, Mathiesen BV; Connolly D. Comparison of fuel production costs for future transportation. In: Poster session presented at NextSTEPS Research Symposium, Davis, United States, **2014**.
3. Connolly D, Mathiesen BV, Lund H, Werner S. 4DH Research in A European Context. In: Poster session at Energy and Environment for the Future, Copenhagen, Denmark, **2014**.
4. Mathiesen BV, Lund H, Connolly D. The CEESA Smart Energy Systems Approach for Denmark and Europe. In: Poster session presented at Energy and Environment for the Future, Copenhagen, Denmark, **2014**.
5. Zakeria B, Syria S, Connolly D, Welschc M. Impact of Energy Transition in Germany on the Nordic Power Market. In: Energy Science Technology International Conference and Exhibition, Karlsruhe, Germany, May **2015**.

Websites

1. EnergyPLAN (www.EnergyPLAN.eu): designed, implemented, and maintain the EnergyPLAN website since the start of 2013. I have introduced a range of new features including a new layout, a member's map, forum, online videos, and performance analytics. Since I began coordinating the website activities the number of visitors has increased almost threefold, from 900/month to over 2400/month in mid-2015. It continues to grow since.
2. Heat Roadmap Europe (www.heatroadmap.eu): I created, designed, and maintain the Heat Roadmap Europe website which currently receives over 1000 unique visitors per month.
3. Personal Homepage (www.dconnolly.net): I maintain a personal homepage to maximise the dissemination of my research and teaching activities. It currently receives approximately 1000 unique visitors/month.