

**Brian Vad Mathiesen**

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**SHORT BIOGRAPHY**

Brian Vad Mathiesen, Professor in Energy Planning and Renewable Energy Systems at Aalborg University, is one of the leading researchers behind the concepts of [Smart Energy Systems](#) and electrofuels. He is on Thomson Reuters [Highly Cited](#) list, a global list of the top 1% cited researchers; a member of the [EU Commission expert group on electricity interconnection targets in the EU](#), and Principal Investigator (PI) of the [RE-INVEST](#) and sEnergies projects. His research focuses on the technological and socio-economic shift to renewable energy (RE), large-scale integration of variable resources and the design of 100% RE systems.

PUBLICATIONS, CITATIONS & INTERNATIONAL RANKING

- **Thomson Reuters ISI Highly Cited** Researcher within Engineering from 2015 to 2018.
- **WEB of Knowledge:** 72 Articles and h-index = 32 (5480 citations), [WEBofScience](#)
- **ResearcherID:** 105 publications and h-index = 33 (6003 citations), [ResearcherID](#)
- **Google Scholar:** 214 publications indexed: 10206 citations, h-index: 40, [GoogleScholar](#)
- **SCOPUS:** 83 publications indexed: 6774 citations, h-index: 36, [Scopus](#)

INTERNATIONAL AND NATIONAL COLLABORATION AND MOBILITY

2017	Visiting researcher, <i>Stanford University</i>
2015	Visiting guest lecturer, PhD level, <i>Kyoto University, Japan</i> ; Evaluation of MSc thesis, <i>Uni. College Cork</i> ;
2016	Examiner energy system analyses, <i>University of Southern Denmark</i>
2014	Visiting guest lecturer, MSc level, <i>University of Copenhagen, Denmark</i>
2013	Examiner, PhD level qualifying exam, <i>Aarhus University</i>
2011	Visiting guest lecturer, PhD and MSc level, <i>University of California, Santa Cruz, USA</i>
2010	Visiting guest lecturer, PhD level, <i>Roskilde University, Denmark</i>
2009-2010	Visiting researcher, <i>University of Zagreb</i>
2006	Visiting researcher, <i>Dep. of Energy, Power Engineering and Environment, Roskilde, DTU Risø</i>

MANAGEMENT

2019-today	Project Coordinator , Quantification of synergies between Energy Efficiency first principle & renewable energy systems (sEnergies); 6 universities & 3 industrial partners in 7 countries. Horizon 2020 (1.5 M€)
2017-today	Head , RE-Invest - Renewable Energy Investment Strategies (www.reinvestproject.eu); 17 partners from universities, public authorities and industry in Denmark, Norway, Germany and the USA; turnover 3.6 M€
2012-today	Research Coordinator , The Sustainable Energy Planning Research Group (30 staff)
2012-today	Programme Director , MSc in Sustainable Cities programme (25-35 students annually)
2017-2019	Project Coordinator , Heat Roadmap Europe 4 (www.heatroadmap.eu), low-carbon heating & cooling strategies; 14 partners from European universities, public authorities & industry; turnover 2.1M€
2012-2018	Deputy head , 4DH Research Centre (www.4dh.dk); 32 partners from universities & industry in Denmark, Sweden, Croatia and China; turnover 8.5 M€

TEACHING ACTIVITIES, SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2006-today	14 PhD courses at Aalborg University (organiser and/or lecturer)
2009-today	Supervision of 7 PhDs at the Department of Development and Planning (one of which was the winner of the EliteForsk travel grant 2014)
2008-2011	Supervision of 1 PhD, Department of Physics and Energy, University of Limerick, Ireland (winner of the 2010 Globe Forum "Early Careers Research Award", Ireland)
2014-2015	Examiner in PhD Assessment Committees, Aalborg University and University of Zagreb
2009-today	Supervision of master theses (approx. 45), Aalborg University, Denmark
2004-today	Supervision of student projects (approx. 125) and teaching at BSc and MSc level
2009-today	Supervision of 5 international guest researchers and 4 international visiting research trainees

ACADEMIC ADVISORY BOARDS, MEMBERSHIPS & ORGANISATION OF INTERNATIONAL SCIENTIFIC CONFERENCES

2017-today	Member of the Danish Academy of Technical Sciences (ATV).
2015-today	Conference chair and organiser of the annual International Conferences on Smart Energy Systems, 4 th Generation District Heating, electrification, electrofuels and energy efficiency, with 300-400 participants from academia & industry
2014-today	Scientific Steering Committee member, International Renewable Energy Storage Conference (IRES), European Association for Renewable Energy EUROSOLAR & World Council for Renewable Energy, organiser of annual conferences with >600 participants from academia & industry
2013-today	Scientific Review Committee member, 8 th -13 th International Renewable Energy Storage Conference and Exhibition (EUROSOLAR – IRES)

2012-today	Management Board Member, International Centre for Sustainable Development of Energy, Water and Environment (SDEWES), organiser of annual conferences with 350-550 participants from academia
2012-today	International Scientific Committee member, International Centre for Sustainable Development of Energy, Water and Environment (SDEWES)
2010-today	Scientific Advisory Board member, International Centre for Sustainable Development of Energy, Water and Environment (SDEWES)
2013-2018	Scientific Award Committee member, 8 th -11 th Conferences on Sustainable Development of Energy, Water and Environment Systems (Lisbon, Dubrovnik, Novi Sad, Perlermo)
2015	Special session organiser (35 invited papers), 10 th Conference on Sustainable Development of Energy, Water and Environment Systems, "Smart Energy Europe - Challenges and opportunities for a fossil and nuclear free European continent", Dubrovnik, Croatia
2013	Special session organiser (16 invited papers), 8 th Conference on Sustainable Development of Energy, Water and Environment Systems, "Energy System Analysis and Smart Energy Systems (EnergyPLAN)", Dubrovnik, Croatia

SCIENTIFIC ADVISORY ACTIVITIES

2016-today	Member of the European Commission Expert Group on Electricity Interconnection Targets in the Energy Union
2015-today	Member of UN Sustainable Development Solutions Network Northern Europe (SDSN)
2010-today	Professional university representative in the Smart City/Renewable energy partnership network Gate 21 for companies and public authorities in Greater Copenhagen
2016-2018	Vice-Chair of the European Commission's Horizon 2020 Advisory Group for Energy (AGE)
2016-2017	Member of Advisory Board, Roadmap for Buildings in Renewable Energy Systems, InnoByg
2015-2016	Scientific Consultant on Renewable Energy Scenarios, Danish Society of Engineers (IDA)
2014	Member of Scientific Advisory Board, Energy for Denmark 2050 Project (DK2050), Danish Architecture Centre
2013-2015	Member of Advisory Board, Analyses of the Future Heating System in Greater Copenhagen conducted by HOFOR, CTR and VEKS (district heating utilities in Greater Copenhagen)
2012-2013	Reviewer in the Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR), Evaluation of Quality of Research
2010-2012	Scientific Advisor at the Danish Board of Technology on Sustainable Transport Scenarios, technical advisory board for the Danish parliament
2006-2009	Scientific Consultant on Renewable Energy Scenarios, Danish Society of Engineers (IDA)

SELECTED MAJOR COLLABORATIONS AND PROJECTS

2019-today	Project Coordinator, Quantification of synergies between Energy Efficiency first principle & renewable energy systems (sEEnergies); 6 universities & 3 industrial partners in 7 countries. Horizon 2020 (1.5 M€)
2017-today	PI, Renewable Energy Investment Strategies – A two-dimensional interconnectivity approach (RE-Invest); 17 partners in Norway, Germany and USA. Innovation Fund Denmark & industry funding (3.6 M€)
2017-today	Partner, Coordinated operation of integrated energy systems (CORE) 100% renewable energy analyses, 2 universities & 2 industrial partners. EUDP funding. Total budget 1.7 M€
2016-today	Partner, HotMaps , Tools for local heating and cooling strategies. 2 universities & 12 industrial partners. H2020 funding. Total budget 3 M€
2016-today	Partner, Thermos , Thermal modelling, GIS and optimisation. 2 universities & 14 industrial partners. H2020 funding. Total budget 2.9 M€
2016-today	Partner, SmartEnCity , Smart Zero Carbon City concepts for replication and implementation. 2 universities & 33 industrial partners. H2020 funding, Smart Cities lighthouse. Total budget 29 M€
2016-2019	PI, Heat Roadmap Europe 4 , 14 country-specific heating & cooling roadmaps (90% of the European demand). 5 universities & 9 industrial partners. H2020 funding. Total budget 2.1 M€
2014-2017	WP leader, CITIES - Strategic Research Centre for IT-Intelligent Energy System in Cities. Decision support & pathways for cities to transform to 100% renewable energy. 5 universities & 35 private partners. Innovation Fund Denmark & industry funding. Total budget 10 M€
2014-2016	Partner, Heat Roadmap Europe 3 Stratego , Impact for Czech Republic, Croatia, Italy, Romania, United Kingdom. 5 universities & 14 private partners. H2020 funding. Danish budget 0.16 M€
2012-2019	Deputy head of the international Strategic Research Centre for 4th Generation District Heating Technologies and Systems for Smart Energy Systems (4DH). 8 universities & 19 industrial partners in Sweden, Croatia & China. Innovation Fund Denmark & industry funding. Total budget 8.5 M€
2011-2013	Partner, Heat Roadmap Europe 2050 : 1st & 2nd pre-study for EU27/EU28. 2 universities & 3 industrial partners from Germany, Sweden and Belgium. Partly funded by 4DH.
2007-2011	WP leader, CEESA - Coherent Energy and Environmental System Analysis. 100% renewable energy and transport scenarios as well as implementation policies and transition road map. 5 universities & 2 industrial partners. Innovation Fund Denmark. Total budget 3 M€.
2005-today	<i>Involved in more than 60 other projects.</i>
