Niels-Erik Clausen - DTU Orbit (06/03/2019)
Clausen, Niels-Erik
necl@dtu.dk
Department of Wind Energy - Associate Professor
Integration & Planning

Research outputs:

The North Sea Offshore Wind Service Industry: Status, perspectives and a joint action plan
Andersen, P. D., Clausen, N-E., Cronin, T. & Piirainen, K. A. 2018 In : Renewable and Sustainable Energy Reviews. 81, 2 , p. 2672-2683
Research output: Research - peer-review › Journal article – Annual report year: 2018

EIAplus - Subreport 3: Limitations and possibilities for social consequences in EIA
Larsen, S. V., Nielsen, H., Lyhne, I., Rudolph, D. P. & Clausen, N-E. 2017
Research output: Research › Report – Annual report year: 2017

IceWind final scientific report
Research output: Research - peer-review › Report – Annual report year: 2017

Spoiled darkness? Sense of place and annoyance over obstruction lights from the world’s largest wind turbine test centre in Denmark
Rudolph, D. P., Kirkegaard, J. K., Lyhne, I., Clausen, N-E. & Kørnøv, L. 2017 In : Energy Research & Social Science. 25, p. 80-90
Research output: Research - peer-review › Journal article – Annual report year: 2017

Ice detection on wind turbines using observed power curve
Research output: Research - peer-review › Journal article – Annual report year: 2015

Identifying and characterizing the impact of turbine icing on wind farm power generation: Impact of turbine icing on wind farm production
Research output: Research - peer-review › Journal article – Annual report year: 2016

Socio-economic Impacts—Offshore Activities/Energy
Research output: Research - peer-review › Book chapter – Annual report year: 2017

Continuing education in Wind Energy through E-learning
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Mapping Offshore Winds Around Iceland Using Satellite Synthetic Aperture Radar and Mesoscale Model Simulations
Research output: Research - peer-review › Journal article – Annual report year: 2015

Offshore Wind Farms
Public acceptance of wind farm development: Developer practices and review of scientific literature: Wind2050 WP3 Deliverable 1
Research output: Research › Report – Annual report year: 2015

Towards a Joint Action Plan for Research and Development in the Offshore Wind Service Industry
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Environmental and social impacts of wind energy
Research output: Research - peer-review › Book chapter – Annual report year: 2014

ENVISAT ASAR satellite offshore wind resource statistics in Iceland compared to NORA10 model results
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2014

Forecast of icing events at a wind farm in Sweden
Research output: Research - peer-review › Journal article – Annual report year: 2014

IceWind Inter-comparison of Icing Production Loss Models
Research output: Research › Sound/Visual production (digital) – Annual report year: 2014

Icing Impacts on Wind Energy Production
Research output: Research › Ph.D. thesis – Annual report year: 2014

Modeling Power Loss Due to Wind Turbine Icing
Research output: Research - peer-review › Poster – Annual report year: 2014

Modeling Power Loss Due to Wind Turbine Icing
Davis, N., Hahmann, A. N., Clausen, N-E. & Zagar, M. 2014
Research output: Research › Sound/Visual production (digital) – Annual report year: 2014
Wind power

WRF Sensitivity Analysis of Boundary Layer Clouds During the Cold Season

Combining satellite wind maps and mesoscale modelling for a wind atlas of the South Baltic Sea

Recipe for correcting the effect of mesoscale resolution on the estimation of extreme winds

South Baltic Wind Atlas: South Baltic Offshore Wind Energy Regions Project

Why doesn't my wind farm produce what I expected? A guide to wind farm performance assessment

Wind atlas mapping in the South Baltic Sea: methods and results

Wind energy resources of the South Baltic Sea

Winds in the South Baltic Sea - Working towards a wind Atlas

Intense and extreme wind speeds over the Nordic countries

Investigation into the Development of a Wind Energy Industrial Strategy for South Africa
Szewczuk, S., Markou, H., Cronin, T., Lemming, J. K. & Clausen, N-E. 2010 CSIR and Risø DTU.
Vindmøllers økonomi
Research output: Research › Report – Annual report year: 2010

Are we facing increasing extreme winds in the future?
Research output: Research › Article in proceedings – Annual report year: 2009

Climate change impacts on extreme wind speeds
Research output: Research › Article in proceedings – Annual report year: 2009

Contribution to the Chapter on Wind Power, in: Energy Technology Perspectives 2008, IEA
Lemming, J. K., Morthorst, P. E., Clausen, N-E. & Hjuler Jensen, P. 2009 Roskilde: Danmarks Tekniske Universitet, Risø Nationalaboratoriet for Bæredygtig Energi. 64 p. (Denmark. Forskningscenter Risoe. Risoe-R; No. 1674(EN)).
Research output: Research › Report – Annual report year: 2009

Development of Offshore Wind Power - Status and Perspectives
Research output: Research › peer-review › Book chapter – Annual report year: 2009

Environmental impact assessment
Clausen, N-E. 2009
Research output: Research › Paper – Annual report year: 2009

Future wind energy technology and CO2 perspectives
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Offshore Wind Power Experiences, Potential and Key Issues for Deployment
Research output: Research › Report – Annual report year: 2009

Status and planning, economics
Clausen, N-E. 2009
Research output: Research › Paper – Annual report year: 2009

Will climate change influence extreme wind speeds?
Pryor, S., Barthelmie, R. J., Clausen, N-E., Nielsen, M., Kjellström, E. & Drews, M. 2009 Proceedings. p. 21-28
Research output: Research › Article in proceedings – Annual report year: 2009

Technologies for production of Electricity and Heat in Sweden. Wind energy in perspective of international development
Research output: Research › Report – Annual report year: 2008

Best practice guidelines for the development of wind energy projects
Measurements offshore
Enevoldsen, K. & Clausen, N-E. 2007
Research output: Research › Paper – Annual report year: 2007

Offshore wind energy in Denmark
Clausen, N-E. 2007
Research output: Research › Paper – Annual report year: 2007

Opportunities for wind resource assessment using both numerical and observational wind atlases - modelling, verification and application
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Technical Feasibility Studies Philippines
Research output: Research › Report – Annual report year: 2007

Technical Feasibility Studies Vietnam
Research output: Research › Report – Annual report year: 2007

Wind farms in regions exposed to tropical cyclones
Research output: Research › Article in proceedings – Annual report year: 2007

Wind power
Research output: Research › Book chapter – Annual report year: 2007

Design of wind turbines in an area with tropical cyclones (poster)
Research output: Research › Article in proceedings – Annual report year: 2006

Design of Wind Turbines in Typhoon area: A first study of Structural Safety of Wind Turbines in Typhoon prone areas
Research output: Research › Report – Annual report year: 2006

Final Workshop; "Lessons Learnt and Way Forward", 1 December 2006, Hanoi, Vietnam
Research output: Research › Report – Annual report year: 2006

Final Workshop; "Lessons Learnt and Way Forward", November 28, 2006
Research output: Research › Report – Annual report year: 2006

Wind Resource Assessment Report, Philippines: Site Acquisition, Installation and Commissioning of Wind Measurement Equipment
Research output: Research › Report – Annual report year: 2006
Wind resource estimation and environmental impact of wind power
Clausen, N-E. 2005
Research output: Research › Conference abstract for conference – Annual report year: 2005

Energy for development network, Risoe National Laboratory
Clausen, N-E. & Pacudan, R. 2004
Research output: Research › Conference abstract for conference – Annual report year: 2004

Impact from climate change on the wind energy potential in the Nordic region
Clausen, N-E. 2004
Research output: Research › Poster – Annual report year: 2004

Policy options and economics of wind energy development
Clausen, N-E. & Pacudan, R. 2004
Research output: Research › Conference abstract for conference – Annual report year: 2004

Wind farm planning at the Gulf of Suez
Research output: Research › Report – Annual report year: 2004

A possible CDM project in Egypt: 60 MW wind farm in the Gulf of Suez
Research output: Research › Article in proceedings – Annual report year: 2003

Emerging practices of wind farm planning in a dense bird migration area
Research output: Research › peer-review › Article in proceedings – Annual report year: 2003

Baseline analysis in relation to CDM projects based on wind energy (poster)
Research output: Research › Article in proceedings – Annual report year: 2002

The development of wind power in the Mediterranean region in the framework of the Clean Development Mechanism of the Kyoto Protocol
Research output: Research › Article in proceedings – Annual report year: 2002

Isolated systems with wind power. An implementation guideline
Research output: Research › Report – Annual report year: 2001

Isolated systems with wind power. Main report
Research output: Research › Report – Annual report year: 2001

Prefeasibility study for a pilot CDM project for a wind farm in Egypt. Final report
Research output: Research › Report – Annual report year: 2001
Projects:

**Positioning of Danish offshore wind farms until 2030 – using Levelized Cost of Energy (LCoE)**
Abrahamsen, A. B., Clausen, N. & Ohlsen, G. L.
28/08/2018 → 07/02/2019
Project: Research › Dissertation project

**VWMPlus: Offentlig accept af VE teknologier (public acceptance of RE Technologies)**
Clausen, N. & Rudolph, D. P.
01/04/2016 → 31/12/2017
Project: Research

**VIROS: Vind i ROSkilde**
Abrahamsen, A. B., Dellvik, E., Kock, C. W., Clausen, N., Kjær, T., Sander, M. & Hermansen, S.
Klimafonden Roskilde Kommune
01/11/2016 → 31/01/2018
Project: Research

**Development of Risk Management Strategies Regarding the Public Perception of Engineering Systems: The example of Wind Power in Denmark**
Johansen, K., Borch, K., Clausen, N., Rasmussen, B., Ellis, G., Firestone, J. & Ladenburg, J.
Industrial PhD
01/01/2015 → 30/09/2018
Project: PhD

**Forecasting Wind Turbine Licing Conditions**
Davis, N., Hahmann, A. N., Clausen, N., Zagar, M., Giebel, G., Andersson, A. & Haupt, S. E.
Eksternt finansieret virksomhed
01/06/2011 → 05/11/2014
Project: PhD

**Electricity Market Design for Accommodation of Renewable Energy from Multinational Offshore Grids**
Schröder, S. T., Morthorst, P. E., Meibom, P., Pade, L., Clausen, N., Hohmeyer, O. & Lund, H.
Institut/centerfinansieret
01/08/2009 → 31/01/2013
Project: PhD

**ECOWindS: European Clusters for Offshore Wind Servicing**
Piirainen, K. A., Andersen, P. D., Clausen, N., Buhl, T. & Cronin, T.
01/11/2013 → 31/10/2015
Project: Research

**EU-South Baltic OFF.E.R: South Baltic Offshore Energy Regions**
01/03/2010 → 28/02/2013
Project: Research

**ICEWIND: ICEWIND: Improved forecast of wind, waves and icing**
Clausen, N., Hasager, C. B., Hahmann, A. N., Davis, N., Badger, M. & Giebel, G.
01/09/2010 → 28/02/2015
Project: Research

Activities:
Wind Energy Master – an online programme
Badger, M. (Other), Clausen, N. (Speaker), Hansen, M. O. L. (Other)
3 Jul 2018
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

E-learning: Wind Energy Master
Badger, M. (Other), Clausen, N. (Speaker)
29 Nov 2017
Activity: Talks and presentations › Conference presentations

Vindenergi (Wind energy)
Clausen, N. (Guest lecturer)
26 Sep 2017
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Lidar and MCP in wind resource estimations above measurement-mast height
Kelly, M. C. (Main supervisor), G.J.W. van Bussel (External examiner), W.A.A.M. Bierbooms (Supervisor), Clausen, N. (Internal examiner), Ardaan Walvis (Supervisor)
1 Jan 2017 → 1 Aug 2017
Activity: Examinations and supervision › Supervisor activities

Wind energy - Issues you did not know
Clausen, N. (Lecturer)
24 Apr 2014
Activity: Talks and presentations › Conference presentations

Press clippings:

Vi skal stadig blive klogere på vindmøller (We still need to learn more about wind turbines)
Niels-Erik Clausen & Tom Nervil
17/10/2017
1 media contribution
Press/Media: Press / Media