




Dr Malte Jansen

An interdisciplinary scientist and thought leader at the intersection of energy technology, economics and policy working towards net-zero through collaboration, science communication and education.

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[@mpunktjansen](https://twitter.com/mpunktjansen) 

Qualifications

Doctoral thesis (2013-2016)

Renewable energy and energy economics

M.Eng in Energy and Environmental Management 04/2010 – 10/2011
(eq. to 1st), University of Flensburg

B.Eng in Energy and Environmental Management 09/2006 – 03/2010
(eq. to 2:1), University of Applied Science Flensburg

- Semester at University of Vigo, Spain
- Intern ÖKOTEC, Berlin
- Trainee Stadtwerke Flensburg

Languages & Tools

English	●●●●●
German	●●●●●
Spanish	●●●○○
French	●●○○○
R	●●●●○
MatLab	●●●●○
MS Office	●●●○○
MS Project	●●○○○
VBA	●○○○○
MS .net C#	●●○○○
Adobe Photoshop	●●●○○
Project manager (PMI)	●●●●○

Current employment

Postdoctoral Researcher at Imperial College London since 01/2018 and **Co-convenor Energy Policy Option** of the MSc Environmental Technology.

- Project leader of high impact paper on subsidy-free offshore wind in Nature Energy, using Europe's offshore wind auction results. Mention e.g. in The Guardian, The Times, Forbes, interview in Der Spiegel and policy impact in the German Bundestag and UK policy making.
- Co-founder of the PowerSwarm, a crowd-based energy professional's network for the industry and academia with currently ~600 members.
- Royal Society Pairing Scheme 2021, ongoing exchange with Lord Oates.
- Participant of the European Talent Academy, in collaboration with TU Munich.
- Projects: Maximising the Carbon Impact Of Wind Power, MESMERISE, IDLES (named PDRA).
- Evidence of Esteem: 150+ media appearances, interviews for news items, radio and television and policy impacts. PostDoc representative.

Previous Work Experience

Consultant at E4tech in London, UK. 2016-2017

- Working in project teams split across London and Lausanne.
- Project leader in 3 consulting projects on renewables auction design, sector coupling and renewable ammonia.
- Planned and executed stakeholder engagement for BEIS on demand-response.
- Led work package on project for the German National Organisation for Hydrogen and Fuel Cells on the industrialisation of electrolysers.
- Acquired in excess of £50,000 worth of consultancy services in the first year.

Research Associate / Consultant at Fraunhofer IEE, Kassel, Germany. 2011-2016

- Acquisition, managing and lead authoring of high visibility consulting study from the German renewables trade body on power market design. Study influenced the legislation in 2015/2016 towards a better integration of renewables into the power system.
- Led research work on enabling wind turbines to provide ancillary services, collaborating with utilities, energy traders, wind turbine manufacturers and grid operators. Advice on reforming the market was implemented giving evidence to the regulator repeatedly.
- Work package leader on techno-economic impact of virtual power plants in the energy market, balancing requirements from wind and solar and the economics of floating offshore wind farms.
- Selection as a representative in consulting project with Ernst and Young to disseminate research on electricity market design in Delhi, sharing panel with the Indian regulator and secretary of state of the Indian Ministry for New and Renewable Energies (MNRE).
- Successfully applied for research funding in excess of €1 million and consultancy services in excess of €100,000.

Funding and Grants

In total, acquired research grants in excess of £1 million and consultancy services in excess of £150,000, excluding monetary value of co-authored contributions to bids.

Imperial College	<p>Funding acquired for projects and studies:</p> <ul style="list-style-type: none">▪ <u>Energising Britain: Progress, impacts and outlook for transforming Britain's energy system</u> <p>Currently under development:</p> <ul style="list-style-type: none">▪ Pump/Prime initiative on 'Extreme Weather Events' with secondment to Energy Futures Lab currently.▪ Contributing to <u>UKERC Flexible Fund</u> call with Richard Green, Goran Strbac and Iain Staffell. Designated position as R-Col.▪ Proposal development on 'Offshore Wind Auctions' with DTU and NREL.
E4tech	<p>Acquired in excess of £50,000 worth of consultancy services in the first year.</p> <p>Funding acquired for projects and studies:</p> <ul style="list-style-type: none">▪ <u>Renewables auction design.</u>▪ <u>Sector coupling.</u>▪ Renewable ammonia.
Fraunhofer IEE	<p>Successfully applied for research funding in excess of €1 million and consultancy services in excess of €100,000.</p> <p>Funding acquired for projects and studies and contributions:</p> <ul style="list-style-type: none">▪ <u>Control Reserve from Wind and Solar.</u> €500,000 for Fraunhofer IEE. Funder: German Federal Ministry of the Environment, Nature Conservation and Nuclear Safety.▪ <u>ReWP. Control Energy from Wind and Solar Parks.</u> €1.1 million for Fraunhofer IEE. Funder: German Federal Ministry of Economics and Technology▪ <u>IRPWind.</u> €1.0 million. Funder: European Commission FP7▪ <u>Regelenergie durch Wind.</u> Technical Consulting Implementation for Mainz Stadtwerke AG.▪ <u>Flexibilising the electricity market – challenges and solutions).</u> Consulting for BEE e.V.▪ <u>Optimisation of market conditions for the provision of control reserve by renewable energy sources.</u> Consulting for BEE e.V.

Teaching and Convening

Co-convening	<p>Co-convenor for the Energy Policy option for the MSc course Environmental Technology at the Centre for Environmental Policy, Terms: 2019/2020 and 2020/2021. Responsible for curriculum design, setting and marking of assessments, maintaining student satisfaction and welfare, organisation of field trips and lecturing.</p>
Lecture	<p>Project management for the MSc course Environmental Technology, in the 'Becoming an Independent Learner' (BIL) module for 150 students. 2019-2021.</p>
Lecture	<p>Hydrogen Technologies for the Energy Policy option of the MSc course Environmental Technology for 20 students. 2020-2021.</p>
Tutorial	<p>Quantitative tutorial for the Energy Policy option of the MSc course Environmental Technology for 20 students. 2020-2021.</p>
Lecture / Seminar	<p>Climate Negotiations Game for the Energy Policy and Global Environmental Change and Policy option of the MSc course Environmental Technology for 40 students. 2019-2021.</p>
Seminar / Marking	<p>Small group seminar on Sector Coupling for the MSc course Sustainable Energy Futures with 8 students. 2019.</p>
Field Trip	<p>Energy Policy option of the MSc course Environmental Technology with 21 students. Organisation of visits to National Grid, power plant, wind turbine and solar farm visit, dinner for students for 2 overnight stays in Bristol. 2020/2021.</p>

Supervision

Main supervisor of MSc Thesis in the MSc Environmental Technology and MSc in Sustainable Energy Futures

MSc Thesis	Samuel Hill. Hydrogen from offshore wind and electrolysers . Summer 2018. Publication in preparation
MSc Thesis	Krista Halttunen. The merit-order effect across Europe . Summer 2018. Publication in preparation. Currently PhD student at Imperial College London.
MSc Thesis	Rose Armitage. Modelling the LCOE of floating offshore wind globally . Summer 2018
MSc Thesis	Felicia Aminoff. The road to flexibility from electric vehicles - exploring the implementation of smart residential EV charging in the UK . Summer 2019
MSc Thesis	Hi Chi Cheung. Would large commercial companies respond to demand response? Summer 2019
MSc Thesis	Liam Fitzpatrick. Decarbonising global shipping with Ammonia . Summer 2020
MSc Thesis	Warnakulasuriya Peiris. Global solar PV auctions and what their bids can say about costs and revenues . Summer 2020. Publication in preparation
MSc Thesis	David Mytton. The energy intensity of video streaming . Summer 2020. Publication in preparation
MSc Thesis	Shabana Akhtar. Achieving net-zero carbon households by electrification and using flexibility . Summer 2020
MSc Thesis	Ellie Burkill. Modelling potential scenarios under the COP 26 Energy Transition Campaign: A focus on Kenya . Summer 2020
MSc Thesis	Ragnhild Kvamsas. Sustainable aviation is ready for take-off with a basket of measures . Summer 2020
MSc Thesis	Edward Terpilowski-Gill. Net-zero greenhouse gas emissions in Laos . Summer 2020
MSc Thesis	Tabea Stöckel. Hydrogen strategy for Argentina in Patagonia . Summer 2021
MSc Thesis	Sebastian Kern. Energy Policy Options for South Africa . Summer 2021
MSc Thesis	Simon Malleret. Winner's curse or middleman's indifference: How do price developments affect post-auction offshore wind energy project profitability? Summer 2021
MSc Thesis	Elza Tessenyi. The changing attitudes towards nuclear as a source of energy: the cases of Germany and Japan since World War II . Summer 2021
MSc Thesis	Melissa Martin. An assessment of direct energy job impacts caused by a changing electricity grid in the contiguous United States . Summer 2021
MSc Thesis	Manuel Schrenck. Blockchain for Green Bonds . Summer 2021

Scientific Publications

h-index = 9, i10-index 8, total citations = 186. 29 outputs in total, including technical reports (further down). Co-authored 18 scientific publications in total of which I am lead author in 14 publications, and 5 journal papers.

<https://scholar.google.co.uk/citations?hl=en&user=dRnN9KIAAAAJ>.

Top 5% of all research outputs ever tracked by Altmetric for the paper “Offshore wind competitiveness in mature markets without subsidy” with an article-level score of 1259. Reviewer for high-impact journals: Nature Energy, Energy Economics, Energy Policy, Joule and Applied Energy.

- [1] **Jansen, M.**; Staffell, I.; Kitzing, K.; Quoilin, S.; Wiggelinkhuizen, E.; Bulder, B.; Riepin, I.; Müsgens (2020): Offshore wind competitiveness in mature markets without subsidy. In Nature Energy Volume 5, pages 614–622.
DOI: <https://doi.org/10.1038/s41560-020-0661-2>.
Research Highlight: Altmetric-Score: 1245, over 120 news stories, 2 interviews, 1 appearance in parliamentary proceedings, Second-highest ranked impact paper at Centre for Environmental Policy, #1 at Imperial College for Energy, Top 25 globally in Energy. 17 citations to date.
- [2] Saint-Drenan Y.-M.; Besseau, R.; **Jansen, M.**; Staffell, I.; Troccoli, A.; Dubus, L. Schmidt, J. Gruber, K.; G. Simões, S.; Heier, S. (2020): A parametric model for wind turbine power curves incorporating environmental conditions. *Renewable Energy*, Volume 157, September 2020, Pages 754-768. DOI: [10.1016/j.renene.2020.04.123](https://doi.org/10.1016/j.renene.2020.04.123).
- [3] Jansen, M.; Staffell, I.; Hill, S. (2018): Sector coupling: Renewable gas from offshore wind and offshore electrolyzers to decarbonise heat and transport. *Wind Integration Workshop 2018*, 18th October 2018. Stockholm, Sweden.
- [4] **Jansen, M.**; Staffell, I.; Green, R. (2018): Daily marginal CO2 emissions reductions from wind and solar generation. Conference on *European Energy Markets (EEM)*, 28th June 2018. Łódź, Poland. Full paper in proceedings DOI: [10.1109/EEM.2018.8469873](https://doi.org/10.1109/EEM.2018.8469873). (Peer-reviewed, EEM papers are highly regarded in the field)
- [5] **Jansen, M.** (2017): Innovationsausschreibungen im EEG 2017 - Studie zur Steigerung der Systemdienlichkeit erneuerbarer Energien (eng.: Innovation tenders in the German Renewables Act 2017 – Study on improving System Integration Renewable Energy Sources). In *Magazin für Energiewirtschaft (EW Magazin)* 6/2017.
- [6] **Jansen, M.** (2017): Economics of control reserve provision by fluctuating renewable energy sources. Doctoral Thesis submitted in fulfilment of the requirements for the degree of Doctor of Economics (Dr.rer. pol.) at the European University of Flensburg.
Research Highlight: Policy recommendations were implemented into market regulation as proposed.
- [7] **Jansen, M.** (2016): Economics of control reserve provision by fluctuating renewable energy sources. Conference on *European Energy Markets (EEM)*, 9th June 2016. Porto, Portugal. Full paper in proceedings DOI: [10.1109/EEM.2016.7521342](https://doi.org/10.1109/EEM.2016.7521342). (Peer-reviewed full paper, EEM papers are highly regarded in the field)
- [8] Otterson, S.; Jost, D.; **Jansen, M.**; Siefert, M. (2016): Stochastic trading across time under German TSO constraints. *Wind Integration Workshop 2016*, 16th November 2016. Vienna, Austria.
- [9] Richts, C.; **Jansen, M.**; Siefert, M. (2015): Determining the economic value of offshore wind power plants in the changing energy system. *12th Deep Sea Offshore R&D Conference, EERA DeepWind'2015*. Trondheim, Norway. Full paper in proceedings, In *Energy Procedia* 80 (2015), pp.442-432. DOI: [10.1016/j.egypro.2015.11.446](https://doi.org/10.1016/j.egypro.2015.11.446).
- [10] Hennig, T.; Löwer, L.; Faiella, L.M.; Stock, S.; **Jansen, M.**; Hofmann, L.; Rohrig, K. (2014): Ancillary services analysis of an offshore wind farm cluster - technical integration steps of a simulation tool. *11th Deep Sea Offshore R&D Conference, EERA DeepWind'2014*. Trondheim, Norway. Full paper in proceedings, In *Energy Procedia* 53 (2014), pp.114-123. DOI: [10.1016/j.egypro.2014.07.220](https://doi.org/10.1016/j.egypro.2014.07.220). (Peer-reviewed full paper)
- [11] **Jansen, M.**; Jost, D.; Widdel, M.; Siefert, M. (2014): Control Reserve Provision with Wind Farms. *Wind Integration Workshop 2014*, 12th November 2014. Berlin, Germany.
- [12] **Jansen, M.**; Jost, D.; Siefert, M.; Widdel, M. (2014): Regelenergie durch Windkraftanlagen (eng.: Balancing Reserve from Wind Turbines). *Symposium Energieinnovationen 2014*, 14th February 2014. Graz, Austria.

- [13] **Jansen, M.**; Speckmann, M.; Jost, D.; Siefert, M. (2013): Macro-Economic Evaluation of Proof Methods for the Delivery of Balancing Reserve by Wind Farms. *Wind Integration Workshop 2013*, 24th October 2013. London, United Kingdom. Full paper in proceedings.
- [14] **Jansen, M.**; Speckmann, M.; von Harpe, A.; Hahler, M. (2013): Pool of Photovoltaic Systems delivering Control Reserve. *Solar Integration Workshop 2013*, 21st October. London, United Kingdom.
- [15] **Jansen, M.**; Speckmann, M. (2013): Participation of photovoltaic systems in control reserve markets. *CIREC 2013 Conference*, 12th June 2013. Stockholm, Sweden. Full paper in proceedings DOI: 10.1049/cp.2013.0631. (Peer-reviewed full paper)
- [16] **Jansen, M.**; Speckmann, M. (2013): Wind turbine participation on Control Reserve Markets. *EWEA Annual Event 2013 Conference*, 5th February 2013. Vienna, Austria.
- [17] **Jansen, M.**; Speckmann, M.; Schwinn, R. (2012): Impact of control reserve provision of wind farms on regulating power costs and balancing energy prices. *Wind Integration Workshop 2012*, 14th November 2012. Lisbon, Portugal. Paper in proceedings (ISBN 978-3-9813870-5-6).
- [18] **Jansen, M.**; Speckmann, M.; Baier, A. (2012): Impact of frequency control supply by wind turbines on balancing costs. *EWEA Annual Event 2012 Conference*, 18th April 2012. Copenhagen, Denmark. Full paper in proceedings.

Academic journal papers in preparation

- [1] **Jansen, M.**; Beiter, P.; Riepin, I.; Müsgens, F.; Juarez Guajardo-Fajardo, V.; Staffell, I.; Bulder, B.; Kitzing, L. (2021): Global competitive procurement of offshore wind: Policy choices and outcomes. Final draft. Submission to Energy Policy early June 2021.
- [2] Halttunen, K.; Staffell, I.; Slade, R.; Saint-Drenan, Y-M.; **Jansen, M.** (2021): Global assessment of the merit-order effect and revenue cannibalisation of variable renewable energy. In revision stage for resubmission to Joule. Preprint DOI: <https://dx.doi.org/10.2139/ssrn.3741232>
- [3] Warnakulasuriya, P., Staffell, I.; **Jansen, M.** (2021): The Cost-Competitiveness of Solar PV: Insights from Renewable Energy Auction Results. Follow-up on "Offshore wind competitiveness in mature markets without subsidy" in *Nature Energy*. Ready for submission early July to *Nature Energy* or *Joule*.
- [4] Duffy, C.; Green, T.; **Jansen, M.**; Green, R.; Staffell, I. (2021): The prospects and impacts of an offshore wind power hub in the North Sea. Currently under review with *Energy*.
- [5] Hill, S.; Staffell, I.; **Jansen, M.** (2021): Offshore Hydrogen from wind and electrolyzers. Analysis complete. Presented at Wind Integration Workshop 2018. Final drafting stage. Preferred journal is *International Journal of Hydrogen Energy*.
- [6] Mytton, D.; Staffell, I.; **Jansen, M.** (2021): The energy intensity of video streaming. Student project with initial publication outlining the research in *Nature Climate Change*. Currently under revision for submission to *One Earth*.
- [7] **Jansen, M.**; Carmichael, R.; Staffell, I. (2021): The evidence base on demand-side response from electric vehicles. Data collection finalised, paper is in drafting stage.
- [8] Jansen, N.; Green, R.; Staffell, I. (2021): What drives the carbon emissions saved by wind and solar power?. Revision stage, target journal *Energy Economics*.
- [9] McKenna, R.; Pfenninger; S. Heinrichs, H.; Schmidt, J.; Staffell, I.; Gruber, K.; Hahmann, A.; **Jansen, M.**; Klingler, M.; Landwehr, N.; Larsén, X.G.; Lilliestam, J.; Pickering, B.; Robinius, M.; Tröndle, T.; Turkovska, O.; Wehrle, S.; Weinand, J.M.; Wohland, J. (2021): Reviewing methods and assumptions for high-resolution large-scale onshore wind energy potential assessments. Submitted to *Renewable Energy* and currently under review. Preprint DOI: <https://arxiv.org/abs/2103.09781>

Studies and Technical Reports

- [1] Staffell, I.; **Jansen, M.**; Chase, A.; Lewis C.; Cotton, E. (2018): Energy Revolution: A Global Outlook. Study for Drax Group: Selby.
Research Highlight: Presentation during COP24, media coverage in The Times, The Metro. 19 citations to date.
- [2] Staffell, I.; **Jansen, M.**; Chase, A.; Lewis C.; Cotton, E. (2018): Energising Britain: Progress, impacts and outlook for transforming Britain's energy system. Study for Drax Group: Selby.
- [3] **Jansen, M.** (2014): Optimierung der Marktbedingungen für die Regelleistungserbringung durch Erneuerbare Energien (eng.: Optimisation of market conditions for the provision of control reserve by renewable energy sources). Study for the German Renewable Energy Association and HannoverMesse (in German).
- [4] Chase, A.; Gross, R.; Heptonstall, P.; **Jansen, M.**; Kenefick, M.; Parrish, B.; Robson, P. (2017): Realising the Potential of Demand Side Response - A report commissioned by BEIS. Study for the Department for Business, Energy & Industrial Strategy.
- [5] **Jansen, M.** (2017): Design von Innovationsausschreibungen im EEG 2017 - Innovation Balancing für ein integriertes Energiesystem (eng.: Design of Innovation Tenders for the German Renewables Act 2017 - Innovation Balancing for an integrated Energy System). Study for the German Renewable Energy Federation and HannoverMesse (in German).
- [6] **Jansen, M.**; Richts, C.; Gerhardt, N.; Lenck, T. Heddrich, M. (2015): Strommarkt-Flexibilisierung - Hemmnisse und Lösungskonzepte (eng.: Flexibilising the electricity market – challenges and solutions). Study for the German Renewable Energy Association (in German).
Research Highlight: Direct contribution to legislation process through the client. Various recommendations of the study were adopted by the German Government. 17 citations in total.
- [7] Rohrig, K.; Richts, C.; Bofinger, S.; **Jansen, M.**; Siefert, M.; Pfaffel, S.; Durstewitz, M. (2014): Energiewirtschaftliche Bedeutung der Offshore-Windenergie für die Energiewende (eng.: The Importance of Offshore Wind Energy in the Energy Sector and for the German Energiewende). Study for the Stiftung Offshore Windenergie (short version in English).
- [8] Hochloff, P.; **Jansen, M.**; Jost, D.; Bofinger, S. (2014): German Power Market - Introduction to markets, products and processes. Study for industrial customer.
- [9] Brauns, S.; **Jansen, M.**; Jost, D.; Siefert, M.; Speckmann, M.; Widdel, M. (2014): Regelenergie durch Windkraftanlagen - Abschlussbericht (eng.: Control Reserve from Wind Power Plants – Final Report). Technical project report.
- [10] **Jansen, M.** (2016): Intermediate Results from Benchmarking studies, Deliverable n°: 8.15. Project: Demonstration and Benchmarking of a Floating Wind Turbine System for Power Generation in Atlantic Deep Waters (FloatGen), EC-GA n°: 295977. Technical project report.
- [11] **Jansen, M.**; Hochloff, P.; Schreiber, M.; von Oehsen, A.; Peñalosa, B. (2012): Report on the portability of VPP concepts to Germany - Economic Impact Assessment, Deliverable D16.4. Project: Transmission system operation with a large penetration of wind and other renewable electricity sources in electricity networks using innovative tools and integrated energy solutions (TWENTIES). Technical project report.

Talks and Presentations

Invited talks and presentations

- [1] **Global competitive procurement of offshore wind: Policy choices and outcomes.** EERA SP8 Workshop. 10th June 2021. Forthcoming.
- [2] **The subsidy-free era of offshore wind.** Webinar Energy Futures Lab. 15th October 2020. Online.
https://www.youtube.com/watch?v=6_TbchmJBfo
- [3] **Balancing from Wind power - Technology capabilities and current experiences** **Balancing from Wind power.** WindEurope Global Wind Summit, 25th September 2018. Hamburg, Germany.
- [4] **The coupling of the electricity, heat and transport sectors.** CA RES III: 8th Plenary Meeting, 22nd November 2017. Zagreb, Croatia.
- [5] **Design von Innovationsausschreibungen im EEG 2017 - Innovation Balancing für ein integriertes Energiesystem (eng.: Design of Innovation Tenders for the German Renewables Act 2017 - Innovation Balancing for an integrated Energy System).** HannoverMesse 2017, Integrated Energy Plaza, 26th April 2017. Hannover, Germany.
- [6] **Vereinfachung des Marktzugangs für dezentrale Erzeuger/Verbraucher zur Flexibilisierung der Regellenergie und Intradaymärkte (eng.: Easier Market Access for decentralised Generators and Consumers for the Flexibilisation of Reserve and Intraday markets).** IQPC Regellenergiemarkt Strom 2016, 22nd November 2016. Berlin, Germany.
- [7] **The economics of control reserve provision by fluctuating RES in Germany.** IRP Wind Conference, 20th September 2016. Amsterdam, Netherlands.
- [8] **What is the impact of solar and wind on electricity prices?** Organized by the Solar Trade Association, 15th December 2015. London, United Kingdom.
- [9] **Erneuerbare Energien in den Strom- und Regelleistungsmärkten vor dem Hintergrund des Grünbuch/Weißbuchprozesses - Funktion, Aufbau und Integration Erneuerbarer Energien (eng.: Renewable Energies in Power and Ancillary Services Markets – Function, Structure and Renewables Integration).** VDE Kassel, 17th September 2015. Kassel, Germany.
- [10] **Renewables: how far can we go?** Organized by the Energy and Climate Intelligence Unit, 15th July 2015. London, United Kingdom.
- [11] **Balancing for high renewable penetration.** Institute of Physics Conference, “Renewables at Scale: Realising Gigawatt Generation”, 13th July 2015. London, United Kingdom.
- [12] **Imbalance Settlement and Balancing Groups in Germany.** Indo-German Energy Programme - Green Energy Corridors Technical Cooperation Project, Workshop on “Power Market Design with Higher Share of Renewables”, 22nd September 2015. New Delhi, India.
- [13] **Herausforderungen bei Verfahren zur Bestimmung eines gesicherten Regelleistungsangebots und Nachweisverfahren von WEA (und PV) (eng.: Challenges of determining the secured capacity of wind (and solar)) .** dena-Plattform Systemdienstleistungen - Expertenworkshop „Regelleistungserbringung aus dezentralen Energieanlagen“, 20th April 2015. Berlin, Germany. [Link](#)
- [14] **Optimierung der Marktbedingungen für die Regelleistungserbringung durch Erneuerbare Energien (eng.: Optimisation of market conditions for the provision of control reserve by renewable energy sources).** HannoverMesse 2014, 9th April 2014. Hannover, Germany.

Other talks and presentations

- [15] **The era of subsidy-free offshore wind.** PowerSwarm. 11th December 2019. London.
- [16] **Modelling the weather-energy-economic nexus for global wind and solar power output.** Energy Meteorological Society Annual Meeting. 6th September 2018. Budapest, Hungary.
- [17] **The impact of wind and solar generation on the marginal CO2 emissions of the power system.** European Energy Markets Conference European Energy Market Conference 2018, 29th June 2018, Łódź, Poland

- [18] **Renewables support scheme 2.0 - Design of an innovative tender design for the integration of low cost renewables.** Elsevier Energy Systems Conference 2018, 20th June 2018. London, United Kingdom.
- [19] **The impact of wind and solar generation on the marginal CO₂ emissions of the power system.** Elsevier Energy Systems Conference 2018, 19th June 2018. London, United Kingdom.
- [20] **Modelling the weather-energy-economic nexus for global wind and solar power output.** 5th International Conference on Energy Meteorology, 23rd May 2018. Shanghai, China.
- [21] **Realising the Potential of Demand Side Response to 2025 – A small scale DSR study for the British government.** Strommarkttreffen, 07th April 2017. Berlin, Germany.
- [22] **The economics of control reserve provision of fluctuating RES.** Strommarkttreffen, 22nd January 2016. Berlin, Germany.
- [23] **Economics of control reserve provision by fluctuating renewable energy sources.** Conference on European Energy Markets, 9th June 2016. Porto, Portugal.
- [24] **Control Reserve Provision with Wind Farms.** Wind Integration Workshop 2014, 12th November 2014. Berlin, Germany.
- [25] **Regelenergie durch Windkraftanlagen (eng.: Balancing Reserve from Wind Turbines).** Symposium Energieinnovationen 2014, 14th February 2014. Graz, Austria.
- [26] **Macro-Economic Evaluation of Proof Methods for the Delivery of Balancing Reserve by Wind Farms.** Wind Integration Workshop 2013, 24th October 2013. London, United Kingdom.
- [27] **Pool of Photovoltaic Systems delivering Control Reserve.** Solar Integration Workshop 2013, 21st October. London, United Kingdom.
- [28] **Participation of photovoltaic systems in control reserve markets.** CIRED 2013 Conference, 12th June 2013. Stockholm, Sweden.
- [29] **Wind turbine participation on Control Reserve Markets.** EWEA Annual Event 2013 Conference, 5th February 2013. Vienna, Austria.
- [30] **Impact of control reserve provision of wind farms on regulating power costs and balancing energy prices.** Wind Integration Workshop 2012, 14th November 2012. Lisbon, Portugal.
- [31] **Impact of frequency control supply by wind turbines on balancing costs.** EWEA Annual Event 2012 Conference, 18th April 2012. Copenhagen, Denmark.

Blog articles, think pieces

- [1] **Jansen, M.** (2021): Royal Society Pairing Scheme: Building collaborations with policymakers to support net zero. In *The Forum (Imperial Blog)*, 24th March 2021.
- [2] **Jansen, M.** (2020): Nuclear outages cause output to slump. In *Electric Insights Q3 2020*.
- [3] Riepin, I.; **Jansen, M.**; Staffell, I.; Müsgens, F. (2020): Guest Post: Guest post: The era of 'negative-subsidy' offshore wind power has almost arrived. In *CarbonBrief*, 28th July 2020.
- [4] **Jansen, M.** (2020): Behind the paper: The era of subsidy-free offshore wind- How football and international collaboration came together for science in its purest form to show offshore wind can be built without subsidies. In *Nature Behavioural & Social Science (Blog)*, 27th July 2020.
- [5] **Jansen, M.** (2019): Zero-subsidy offshore wind? In *Electric Insights Q3 2019*.

Evidence of Esteem

Over 150 media appearances in print and online news outlets, interviews for news items, radio and television.

Policy Impact	Jansen, M.; Rhodes, A. (2021): Response to Call for Evidence: Enabling a high renewable, net zero electricity system. <i>In response to BEIS <u>Call for Evidence on Enabling a high renewable, net zero electricity system: call for evidence</u></i>
Policy Impact	<u>Deutscher Bundestag (2020): Verfahren zum Bau von Windkraft-anlagen auf See kritisch bewertet. Research work used in parliamentary proceedings of the German parliament (Bundestag).</u> 9 th September 2020.
Interview	German Radio (https://www1.wdr.de/mediathek/audio/wdr5/quarks/index.html).
News Item	<u>Carpenter, S. (2020): Wind Turbine Builder Siemens Gamesa Plots Return To Profitability. In <i>Forbes</i>, 28th August 2020.</u>
Interview	<u>Eisenring, C. (2020): Lichtblick für Ökostrom: Windparks im Meer kommen bald ohne Subventionen aus. <i>Neue Zürcher Zeitung</i>, 10th August 2020.</u>
News Item	<u>Ambrose, G. (2020): Open up offshore windfarm subsidy scheme, urges Scottish Power. In <i>The Guardian</i>, 2nd August 2020.</u>
Interview	<u>Dworschak, M. (2020): Interview with Malte Jansen 4th August 2020: In kaum fünf Jahren fielen die Kosten um zwei Drittel. In <i>Der Spiegel</i>, No. 32, p.91 1st August 2020.</u>
News Item	<u>Buljan, A. (2020): UK Mid-2020s OWFs Could Be First to Run with ‘Negative Subsidies’ and Lower Consumer Bills. In <i>OffshoreWind.biz</i>, 28th July 2020.</u>
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