PIERRE PINSON



Principal, inCommodities
Professor, Imperial College London

Aarhus, Denmark / pierrepinson.com / p.pinson@imperial.ac.uk / +45 5273 2000

Pierre Pinson is internationally recognised as a leading academic, consultant and thought leader in the mathematics and analytics of energy markets (power, primarily), with a focus on renewables. More generally, he has world-leading expertise in data science, forecasting and optimisation, with applications in energy, weather, logistics and shipping, and business analytics. In October 2026 he joined **inCommodities**, a Denmark-based energy trading company, as Principal, to lead research and translation, while remaining a Professor at Imperial College London (Dyson School of Design Engineering; ranked 2nd in the QS World University Rankings). He is Chief Scientist at Halfspace (acquired by Accenture, now part of Faculty) and Editor-in-Chief of the *International Journal of Forecasting*, the most prestigious and recognised scientific journal in its field. He has been Chief Scientist, Scientific Advisor and Angel Investor for AI-based companies acquired for amounts of the order of £100 M. He is an IEEE Fellow, a Clarivate Highly Cited Researcher and a winner of the 2024 INFORMS Franz Edelman Award.

∼34.4k	89	220	∼50	∼£20 M
Google Scholar citations	Google Scholar h-index	publications	Ph.D. students mentored	external funding

PROFESSIONAL EXPERIENCE

Oct 2026–	**Principal**, inCommodities (Denmark)
2022–	**Professor**, Dyson School of Design Engineering, Imperial College London
2022–	**Chief Scientist**, Halfspace (Copenhagen) — data, AI and analytics company (acquired by Accenture, now part of Faculty)
2022–	**Affiliated/Adjunct Professor** of Operations Research, Technical University of Denmark (DTU)
2023–	**International Research Fellow**, CoRE, Aarhus University
2025–	**International Expert**, Innovation Fund Denmark
2019–2026	**Angel Investor and Scientific Advisor**, Atmo (acquired by Vaisala)
2021–2022	**Professor** of Operations Research, DTU
2013–2020	**Professor** of Energy Analytics & Markets, DTU
2010–2011	**Scientist**, European Centre for Medium-range Weather Forecasts (ECMWF, UK)
2008–2013	**Associate Professor**, Dept. of Applied Mathematics and Computer Science, DTU
2006–2008	**Post-doctoral fellow, Assistant Professor**, Dept. of Applied Mathematics and Computer Science, DTU

EDUCATION

2006	**Ph.D.** in Energy Engineering (forecasting, stochastic optimization), Ecole des Mines de Paris (Mines ParisTech), France
2002	**M.Sc./M.Eng.** in Applied Mathematics, National Institute for Applied Sciences (INSA Toulouse), France

EDITORIAL AND SOCIETY ROLES

2019–	**Editor-in-Chief**, *International Journal of Forecasting*
2019–	**Director**, International Institute of Forecasters (IIF)
2021–2026	**Associate Editor**, *OR Spectrum*

2022–2024 **Associate Editor**, *Nature, Scientific Data*

2014–2019 **Associate Editor, Editor**, *International Journal of Forecasting*

2010–2019 **Editor**, *Wind Energy*

2011–2016 **Editor**, *IEEE Transactions on Power Systems* (and *IEEE Power Engineering Letters*)

VISITING POSITIONS

2019 Isaac Newton Institute for Mathematical Sciences, Cambridge, UK — Simons Fellow (3 months)

2016 Ecole Nationale Supérieure, Rennes, France — Visiting Professor (1 week)

2009 University of Washington, Department of Statistics — Visiting Researcher (2 months)

2009 University of Oxford, Mathematical Institute — Visiting Researcher (1 month)

HONOURS AND AWARDS

2026 **Winner**, EPRI AI-ccelerate Unit Commitment competition

2026 DTU Ørsted Lecture

2024 **INFORMS Franz Edelman Award** — lead of the winning team (with Halfspace and Molslinjen)

2024 Beijing Foreign Scholar (Peking University, China)

2019–2025 **Clarivate/ISI Highly Cited Researcher** (cross-field): 2019, 2020, 2021, 2022, 2023 and 2025

2020 **IEEE Fellow**

2019 Simons Fellowship, Isaac Newton Institute, Cambridge, UK

2018 IDA Elektropris

2017 Emerald Citation of Excellence, for a highly cited paper in Business and Economics

2014 ERC Consolidator Grant proposal graded A (ranked highly, though not funded)

INVITED AND KEYNOTE TALKS (SELECTION)

2026 *DTU Ørsted Lecture*, Technical University of Denmark

2025 **Keynote**: *Let's learn to share — Better forecasts through data sharing*. International Symposium on Forecasting (ISF 2025)

2024 **Inaugural lecture**: *Data, people, markets and the energy transition*. Imperial College London, 15 May 2024

2020 *Now that we are getting so much data, what do we do with it?* Probabilistic Methods Applied to Power Systems (PMAPS) conference

2020 *Big data analytics in future electricity grids*. Power Systems Computation Conference (PSCC)

2019 *Recent problems in renewable energy forecasting: towards high-dimensional problems*. University of East Anglia

2018 *Show me your forecast, I will show you mine! Are we going towards energy data markets?* University of Waterloo

2018 *Community and peer-to-peer electricity markets*. MIT (USA); UCD (Ireland)

2017 *Community and peer-to-peer electricity markets*. University of Oxford; ETH Zurich; Institut Henri Poincaré

2017 *Wind power forecasting: nonlinearity, dimensionality and sharing aspects*. International Symposium on Forecasting, Cairns (Australia)

2015 *Towards future electricity markets with large penetration of renewable generation*. ETH Zurich; TU Eindhoven

2014 *Offshore wind power fluctuations — modelling and forecasting*. Tsinghua University; University of Hong Kong; Université Paris 7; University of Bonn

2013 *The value of probabilistic information for energy applications*. German Weather Service (DWD); *Renewable energy forecasts ought to be probabilistic!*, WIPFOR, Paris

2012 National meeting of the Royal Meteorological Society (Imperial College London); University of Reading

TEACHING AND EDUCATION

2023–2026	*From data to product* (M.Sc./M.Eng., Imperial College London)
2023–2026	*Game theory and mechanism design* (M.Sc./M.Eng., Imperial College London)
Open course	*Renewables in Electricity Markets* — ten modules of video lectures, slides and exercises, from market fundamentals to advanced renewable energy forecasting (freely available online)
2022	42586 *Decisions under uncertainty* (B.Sc., DTU)
2020	31762 *Introduction to energy analytics* (B.Sc., DTU)
2016–2020	31765 *Optimization in modern power systems* (M.Sc., DTU)
2014–2020	31761 *Renewables in electricity markets* (M.Sc., DTU)
2016–2020	31792 *Advanced optimization and game theory for energy systems* (Ph.D., DTU)
2016	*Game theory in electricity markets* (M.Sc./Ph.D., DTU)
2015–2020	Leader of the study line "Electric Energy Systems" of the M.Sc. in Sustainable Energy (DTU)
2010–2020	Ad-hoc courses in forecasting, stochastic optimization, etc.

PH.D. STUDENTS SUPERVISED

Current Ph.D. students, Imperial College London

Current	**Maryam Fetanat** — *AI based electricity markets*
Current	**Benjamin Fritz** — *Learning-assisted optimisation of energy communities*
Current	**Xiwen Huang** — *Data sharing incentives and applications to sustainability*
Current	**Andreas Makrides** — *Ancillary services and trading strategies*
Current	**Michael Vitali** — *Time series forecasting for renewable energy*

Completed Ph.D. students

2026	**Thomas Falconer** — *Data markets for energy analytics*
2026	**Elea Prat** — *Multi-scale decision-making and applications to energy systems*
2026	**George Vassos** — *Estimation of optimal dynamic purchasing policies in procurement under contract compliance constraints*
2023	**Amandine Pierrot** — *Renewable energy forecasting*
2023	**Benedikt Sommer (with K. Holst)** — *High-dimensional time series forecasting for empty container repositioning problems*
2023	**Linde Frölke** — *Market design for future district heating systems*
2023	**Ilgiz Murzakhanov (with S. Chatzivasileiadis)** — *Data-driven approaches for power grids*
2022	**Anubhav Ratha (with J. Kazempour and A. Virag)** — *Market mechanisms for integrated energy system management*
2021	**Andrea Tosatto (with S. Chatzivasileiadis)** — *Optimization and market integration of multi-area AC/HVDC grids under uncertainty*
2021	**Vladimir Dvorkin (with J. Kazempour)** — *Advanced game-theoretical problems in future electricity markets*
2020	**Anna Schwele (with J. Kazempour)** — *Market mechanisms for integrated energy system management*
2020	**Andreas Venzke (with S. Chatzivasileiadis)** — *Optimization, operation and control for AC-DC grids*
2020	**Thomas Baroche (with ENS Rennes)** — *Peer-to-peer and community-driven electricity markets: grid costs and operations*
2020	**Fabio Moret (with Thanasis Papakonstantinou)** — *Peer-to-peer and community-driven electricity markets: market design and operations*
2020	**Morten H. Christensen** — *Predicting and mobilizing energy flexibility in intelligent buildings*
2019	**Lejla Halilbasic (with S. Chatzivasileiadis)** — *Impact of HVDC on the European power system*
2019	**Guillaume Le Ray (with O. Winther)** — *Profiling and detection problems with dynamic smart metering data streams*
2019	**Lesia Mitridati (with J. Kazempour)** — *Market-based approaches to the coordination of heat and electricity systems*
2018	**Christos Ordoudis (with J. Kazempour and J.M. Morales)** — *Market-based approaches to the coordination of gas and electricity systems*
2017	**Nicolò Mazzi** — *Optimal offering and operating strategies in electricity markets*
2017	**Tue V. Jensen** — *Systemic aspects of highly renewable energy markets*
2017	**Amanda Lenzi (with B. Ersbøll)** — *Statistical modelling of space-time processes with applications in meteorological and renewable energy forecasting*
2017	**Tiago Soares (with H. Morais)** — *Energy and ancillary services in future electricity markets*
2016	**Stefanos Delikaraoglou (with K. Heussen and J.M. Morales)** — *Modelling of market-based cross-border exchange of balancing power*
2016	**Zied Ben Bouallègue (with A. Henze)** — *Calibration and verification of probabilistic meteorological forecasts for energy-related applications*
2016	**Ditte Mølgård Heide-Jørgensen (with T. Boomsma and N. Detlefsen)** — *Intra hour model for the power market in systems with high wind penetration*
2016	**Qi Wang (with J.M. Morales, S. Pineda and Peter Meibom)** — *System-wide socio-economic and reliability impact of active management of distribution grids and distributed energy resources*

2016 **Niamh O'Connell (with H. Madsen and M. O'Malley)** — *Stochastic dynamics of demand response and the impact on power systems service provision*

2015 **Chunyu Zhang** — *Market design and network planning for distribution grid*

2015 **Emil Mahler Larsen (with Y. Ding and J. Østergaard)** — *Electricity market design for distributed energy resources and flexible demand*

2013 **Julija Tastu (with H. Madsen)** — *Short-term wind power forecasting: probabilistic and space-time aspects*

2013 **Marco Zugno (with H. Madsen and J.M. Morales)** — *Optimization under uncertainty for management of renewables in electricity markets*

2013 **Pierre-Julien Trombe (with H. Madsen)** — *Modelling and forecasting of wind power generation – Regime-switching approaches*

2012 **Tryggvi Jónsson (with N.K. Poulsen)** — *Forecasting and decision-making in electricity markets with focus on wind energy*

2011 **Claire L. Vincent (with G. Giebel and A. Hahmann)** — *Predictability of wind fluctuations at large offshore wind farms*

Visiting Ph.D. students hosted

2021–2022 **Ning Qi** (Tsinghua University) — *Generic energy storage and decision-dependent uncertainties in decision-making*

2021–2022 **Honglin Wen** (Shanghai Jia Tong University) — *Some problems in probabilistic wind power forecasting*

2020 **Ingrid Collado** (UPC) — *Forecasting demand-side flexibility*

2020 **Tatiana Chernova** (Skoltech) — *Peer-to-peer markets under uncertainty*

2019–2020 **Zhenwei Guo** (Zhejiang University) — *Online optimization approaches to peer-to-peer markets*

2019 **Carla Goncalves** (INESC Porto) — *Privacy in distributed forecasting and data markets*

2018 **Li Bai** (Uni. Pisa) — *Forecast reconciliation problems in wind power forecasting*

2018 **Ciaran Gilbert** (Uni. Strathclyde) — *Very high-resolution forecasting offshore and forecast reconciliation*

2016 **Iris van Beuzekom** (TU Eindhoven) — *Planning problems for multi-energy systems*

2016 **Bruno Schyska** (University of Oldenburg) — *Parametrized learning approaches for renewable energy investment problems*

2016–2017 **Yunpeng Xiao** (Xi'an Jiaotong, China) — *Demand-response in electricity markets: offering and operations*

2016–2017 **Yongning Zhao** (CAS, China) — *Spatio-temporal aspects in wind power forecasting*

2016 **Ayman Esmat** (UC3M, Spain) — *Market architerture and operations from demand-side flexibility*

2016 **Gergo Barta** (Budapest University of Technology and Economics, Hungary) — *Online learning for distributed probabilistic forecasting*

2015 **Nicolo Mazzi** (Uni. Padova, Italy) — *Strategic offering in the Italian electricity market*

2015 **Victoria Guerrero Mestre** (UCLM, Spain) — *Stochastic unit commitment with line switching*

2015 **Roman Le Goff Latimier** (ENS Rennes, France) — *Distributed and multiobjective pricing schemes for EV charging*

2015 **Lazaros Exizidis** (Uni. Mons, Belgium) — *Equilibrium of strategic wind power producers in electricity markets*

2014–2015 **Erick Bezerra** (Universidade Federal do Ceara, Brazil) — *Recursive kernernel least squares approaches to very short term wind power forecasting*

2014–2015 **Huajie Ding** (Tsinghua Uni., China) — *Optimal operation of distributed wind-storage systems*

2014–2015 **Man Xu** (Tsinghua Uni., China) — *Robust approaches in wind power forecasting*

2014 **Jethro Dowell** (Uni. Strathclyde, UK) — *Spatial aspects of probabilistic wind power forecasting*

2013 **Andrea Staid** (Johns Hopkins, US) — *Probabilistic maximum-value wind prediction for offshore environments*

2013 **Can Wan** (Hong Kong Polytechnic Uni., China) — *Interval forecast generation and verification*

2012 **Cristian Waimann** (Uni. Buenos Aires, Argentina) — *Spatial power curves and gridded wind power forecasts*

2010 **Cristobal Gallego** (UPM, Spain) — *Regime-switching models for very short-term offshore wind power forecasting*

FUNDING

Throughout my academic career I have received substantial funding from national and international research councils, as well as directly from industry. Nearly all grants were for collaborative research and innovation projects with academic and industrial partners. The total external funding attracted for my research is of the order of £20 M. Partners and funders include EDF, Ørsted, NESO, APG Verbund and EPRI. In parallel, I have been evaluating projects for funders in, e.g., Sweden, Norway, Austria, Germany, France and the EU.

International and EU projects

2023–2025 **CAB** (NIA) — Causal inference to reveal drivers of balancing costs in the UK (project with NESO, UK).

2023–2028 **EPICS** (NSF-UKRI) — Data- and AI-driven decision support in future energy systems (Global research centre, US-UK-Australia)

2019–2022 **Smart4RES** (EU H2020) — New business models in forecasting, e.g. based on distributed learning and data markets.

2019–2022 **EMBER** (EU H2020) — Proposal and analysis of consumer-centric markets for heat (and electricity).

2017–2020 **SCA** (EU Interreg H2020) — Focus on energy communities in the Øresund region

2014–2018 **Best Paths** (EU H2020) — Scalability and benefit assessment of HVDC system deployment over Europe.

2013–2015 **Ecogrid EU** (EU FP7) — Market concepts proposal and evaluation for the optimal management of demand response.

2012–2013 **TWENTIES** (EU FP7) — Probabilistic forecasting for Dynamic Line Rating.

2011–2015 **WIRE** (EU COST) — Participant in renewable energy forecasts benchmarking group, as well as dynamic line rating working group.

2008–2012 **Wind in Øresund** (EU Interreg) — Education, research and demonstration for the optimal integration of wind energy in the Øresund region. Close collaboration with Lund University, Centre for Mathematical Sciences.

2008–2012 **SafeWind** (EU FP7) — Coordination of research and development efforts towards new methods for wind power forecasting accounting for spatio-temporal characteristics, regimes, etc.

2008–2012 **NORSEWInD** (EU FP7) — Research and development efforts for demonstrating benefits of having wind measurements from the North Sea area for improvement of wind power forecasts over the Denmark region.

2008–2011 **ANEMOS.plus** (EU FP6) — Coordination of the evaluation of the benefits of wind power forecasts and associated uncertainty estimation when used in decision-making

Danish national projects

2023–2025 **ViPES2X** (Danish EUDP) — Forecasting and data-driven optimization for the operation of portfolios of flexible energy assets (e.g., electrolysers, batteries, etc.).

2016–2020 **Multi-DC** (Danish IF) — Market-based operation of DC links and DC grids with application to the Scandinavian region.

2016–2020 **The Energy Collective** (Danish ForskEL) — Design and demonstration of consumer centric and community-driven electricity markets based on peer-to-peer exchanges.

2016–2018 **Ecogrid 2.0** (Danish EUDP) — Market concepts proposal and evaluation for the optimal management of demand response.

2015–2018 **EnergyLab Nordhavn** (Danish EUDP) — Research and demonstration on integrated market solutions (e.g., heat and electricity) at both wholesale and retail levels.

2014–2019 **CITIES** (Danish DSF) — Research Centre on IT-Intelligent Energy Systems - Leading work package on Intelligent Aggregation and Markets.

2014–2017 **PROAIN** (Danish-Chinese IF) — Danish-Chinese collaborative project on active distribution grid management. Large demonstration in China led by Tsinghua University and State Grid Corporation of China

2013–2017 **'5s' - Future Electricity Markets** (Danish DSF) — Research in the design of future electricity markets, with focus on market clearing mechanisms, better integration of demand and its flexibility, impact on investment, etc.

2011–2013 **FastWind** (Danish ForskEL) — Fast monitoring and verification of wind turbine and wind farm power curves

2011–2014 **EaseWind** (Danish ForskEL) — Relevant forecasting products for wind turbines to provide ancillary services in order to support grid operations

2009–2012 **Radar@Sea** (Danish ForskEL) — Short-term wind (power) forecasting at Horns Rev using real-time data from an onsite Local Area Weather Radar

Industry collaborations

2016–2017 **GigaStore - Potential for solar-powered heat storage in Denmark** (Industrial) — Collaborative project with European Energy A/S (Denmark) to model and analyse large-scale renewable heat storage in the Danish market context

2016–2017 **HD-RESforecasts - High-dimensional modelling and forecasting for renewable energy generation** (Industrial, EDF) — Collaborative project with EDF (France) to develop approaches for high-dimensional forecasting of wind and solar power generation

2015 **GenScen - Scenario generation for renewable generation in operational and planning studies** (Industrial, EPRI) — Collaborative project with EPRI (US) to produce scenario of renewable energy generation in large dimensions for test cases in the UK and Midwest US

2009–2011 **Spatio-temporal correction of wind power forecasts** (Industrial, DONG Energy) — Collaborative project with DONG Energy and ENFOR A/S in order to improve wind power forecast accuracy for the DONG wind energy portfolio

2010 **Impact of stochastic generation on EU cross-border flows** (Industrial, APG Verbund) — Collaborative project with APG Verbund for analysing and demonstrating the effect of wind energy production on the flows over the whole European power system

IMPACT AND CITATIONS

- Google Scholar: ∼34 400 citations (h-index 89)
- Scopus: ∼20 500 citations (h-index 72)
- ISI Web of Science: ∼16 800 citations (h-index 65)
- Numerous highly cited papers (top 1% of citations in their field)
- Ranked in the top 0.05–0.1% of researchers worldwide (based on the Clarivate/ISI and Stanford lists)
- Online course on renewables in electricity markets (YouTube): more than 300 000 views

KEY CONTRIBUTIONS

- A probabilistic forecasting framework for renewable energy production (models, visualisation, forecast communication, verification), extended to demand, prices and more
- Calibration and verification of all energy-relevant forecast products from ECMWF
- Trading strategies for renewables based on probabilistic forecasts
- Novel market designs for power, gas and heat
- Educating a generation of analysts and engineers making an impact within energy markets

MENTORING AND SUPERVISION

For the last 20 years I have been recruiting, training and mentoring ambitious, driven people. Between 2006 and 2026 I have mentored nearly 50 Ph.D. students and around 200 M.Sc. students to completion, and recruited and mentored 30 post-doctoral researchers, several of whom have gone on to prestigious grants and scholarships (e.g., an ERC Starting Grant) and positions at institutions such as MIT and ETH. I am recognised as having built one of the most competitive groups in the world at the interface between applied mathematics (statistics/ML, forecasting, analytics, optimisation and game theory), weather and power/energy. I have also evaluated more than 70 Ph.D. theses worldwide.

SERVICE

- **Academic evaluation and recruiting** (25+ positions): INSEAD (France), EPFL (Switzerland), Masdar Institute of Technology, Aarhus University, Colorado School of Mines, University of Michigan, University College London, Mines ParisTech, Chinese University of Hong Kong, Tallinn University of Technology, UiT (Norway), Tafila Technical University (Jordan), Aalto University (Finland), University of Reading (UK), University of Bath (UK), Dartmouth College (USA)
- **Ph.D. evaluation** (70+ theses): University of Oxford, ETH Zurich, EPFL, Monash University, University of Sydney, Mines ParisTech, Aarhus University, Aalborg University, UCD, KTH, CBS, Luleå University, NTNU, Ecole Polytechnique, Toulouse University, Ecole Centrale Paris/Supélec, TU Eindhoven, University of Bonn, Rennes University, University of Zaragoza, Universitat Politècnica de Catalunya, University of Castilla–La Mancha, Universidad Politécnica de Madrid, University of Innsbruck, University of Thessaloniki, University of Twente, ENS, Université Paris-Saclay, University of Copenhagen, Uppsala University, University of Liège, and others
- **Reviewer of research proposals**: Innovation Fund Denmark (evaluator), Academy of Finland, Swedish Research Council, Autonomous Province of Bolzano (Italy), FONDECYT (Chile), ANR (France), FNR (Luxembourg), NWO (The Netherlands), MITACS (Canada), Zhejiang University and City University of Hong Kong (China), FNR (Belgium), ETH Zurich, and others
- **Reviewer of book proposals**: IET, John Wiley & Sons, Springer, Elsevier
- **Journal referee** for more than 60 journals in operations research and management science, statistics, meteorology, climate science, economics, energy, electrical and environmental engineering
- **Conferences** (scientific/programme committee, reviewer): PSCC 2022, PMAPS 2020, PSCC 2020, IEEE PowerTech 2019, PSCC 2018, IEEE PowerTech 2017, PSCC 2016, IEEE PowerTech 2015, ACC 2015, and others

MEMBERSHIPS AND LANGUAGES

- International Institute of Forecasters (IIF); INFORMS; IEEE (Fellow)
- **Languages**: French, English, Danish
- **Outside work**: windsurfing

PUBLICATIONS

One book (Springer Nature), nearly 200 peer-reviewed journal articles and around 100 papers in international conferences. Some of my forecast products and visualisations have become standard in the power industry (e.g., within probabilistic forecasting). Most recent first. **P. Pinson** in bold. Citation counts as of 2026.

Books

1. J.M. Morales, A. Conejo, H. Madsen, **P. Pinson**, M. Zugno (2014). *Integrating renewables in electricity markets: Operational problems*. Springer, International Series in Operations Research and Management Science, vol. 205

Preprints and forthcoming

5. R. Yu, J.L. Cremer, **P. Pinson**, J. Kazempour, L. Semmelmann, T. Matsumoto, D.W. Bunn (2026). From intraday orderbook to imbalance price: Understanding cross-market interaction. *Preprint*, arXiv:2609.37903
4. B. Fritz, A. Makrides, M. Fetanat, **P. Pinson** (2026). Learning to fix: Optimisation-aware machine learning for accelerated unit commitment. *Preprint*, arXiv:2609.39396
3. J. Van Belle, H. Wen, W. Verbeke, **P. Pinson** (2026). Stabilizing distribution-free probabilistic forecasts. *Preprint*, arXiv:2605.28531
2. T. Falconer, **P. Pinson**, J. Kazempour (2026). Towards replication-robust analytics markets. *INFORMS Journal on Data Science*, in press
1. X. Huang, **P. Pinson** (2026). How to purchase labels? A cost-effective approach using active learning markets. *INFORMS Journal on Data Science*, in press

Journal articles

2026

187. H. Wen, **P. Pinson** (2026). Value-oriented forecast reconciliation for renewables in electricity markets. *European Journal of Operational Research* 332(2), pp. 492–504

2024

186. A. Pierrot, **P. Pinson** (2024). Data are missing again – Reconstruction of power generation data using k-Nearest Neighbors and spectral graph theory. *Wind Energy*, in press
185. A. Manzano Kharman, C. Jursitzky, Q. Zhou, P. Ferraro, J. Marecek, **P. Pinson**, R. Shorten (2024). An adversarially robust data-market for spatial, crowd-sourced data. *Distributed Ledger Technologies*, in press
184. C. Wang, **P. Pinson**, Y. Wang (2024). Seamless and multi-Resolution energy forecasting. *IEEE Transactions on Smart Grid*, in press
183. L. Frölke, E. Prat, **P. Pinson**, R.M. Lusby, J. Kazempour (2024). On the efficiency of energy markets with non-merchant storage. *Energy Systems* in press
182. R. Marcille, P. Tandeo, M. Thiébaut, **P. Pinson**, R. Fablet (2024). Convolutional encoding and normalizing flows: A deep learning approach for offshore wind speed probabilistic forecasting in the Mediterranean Sea. *Artificial Intelligence for the Earth Systems* 3(3), art. no. 230112
181. R. Xie, **P. Pinson**, Y. Xu, Y. Chen (2024). Robust generation dispatch with purchase of renewable power and load predictions. *IEEE Transactions on Sustainable Energy* 15(3), pp. 1486-1501
180. A. Pierrot, **P. Pinson** (2024). On tracking varying bounds when forecasting bounded time series. *Technometrics* 66(4), pp. 651-661
179. D. van der Meer, **P. Pinson**, S. Camal, G.Kariniotakis (2024). CRPS-based online learning for nonlinear probabilistic forecast combination. *International Journal of Forecasting* 40(4), pp. 1449-1466
178. A. Raja, J. Kazempour, **P. Pinson**, S. Grammatico (2024). A market for trading forecasts: A wagering mechanism. *International Journal of Forecasting* 40(1), pp. 142-159
177. H. Wen, **P. Pinson**, J. Gue, Z. Jin (2024). Wind energy forecasting with missing values within a fully conditional specification framework. *International Journal of Forecasting* 40(1), pp. 77-95

2023

176. N. Qi, **P. Pinson**, M. R. Almassalkhi, L. Cheng, Y. Zhuang (2023). Chance-constrained generic energy storage operations under decision-dependent uncertainty. *IEEE Transactions on Sustainable Energy* 14(4), pp. 2234-2248
175. S. R. Pandey, **P. Pinson**, P. Popovski (2023). Strategic coalition for data pricing in IoT data markets. *IEEE Internet of Things Journal* 11(4), pp. 6454-6468
174. M.A. Muñoz, **P. Pinson**, J. Kazempour (2023). Online decision-making for trading wind energy. *Computational Management Science* 20, art. no 33
173. **P. Pinson** (2023). What may future electricity markets look like? *Journal of Modern Power and Clean Energy Systems* 11(3), pp. 705-713
172. **P. Pinson** (2023). Distributionally robust trading strategies for renewable energy producers. *IEEE Transactions on Energy Markets, Policy and Regulation* 1(1), pp. 37-47
171. A. Ratha, **P. Pinson**, H. Le Cadre, A. Virag, J. Kazempour (2023). Moving from linear to conic markets for electricity. *European Journal of Operational Research*, in press
170. J. Wang, **P. Pinson**, S. Chatzivasileiadis, M. Panteli, G. Strbac, V. Terzija (2023). On machine learning-based techniques for future sustainable and resilient energy systems. *IEEE Transactions on Sustainable Energy*, in press

2022

169. H. Wen, **P. Pinson**, J. Ma, J. Gue, Z. Jin (2022). Continuous and distribution-free probabilistic wind power forecasting: A conditional normalizing flow approach. *IEEE Transactions on Sustainable Energy* 13(4), pp. 2250-2263
168. **P. Pinson**, L. Han, J. Kazempour (2022). Regression markets and application to energy forecasting. *TOP* 30, pp. 533-573
167. A. Tosatto, X. M. Beseler, J. Østergaard, **P. Pinson**, S. Chatzivasileiadis (2022). North Sea energy islands: Impact on national markets and grids. *Energy Policy* 167, art. no. 112907
166. F. Petropoulos and co-authors (2022). Forecasting: Theory and practice. *International Journal of Forecasting* 38(3), pp. 705-871

165. Z. Guo, **P. Pinson**, S. Chen, Q. Yang, Z. Yang (2022). An asynchronous online negotiation mechanism for real-time peer-to-peer electricity markets. *IEEE Transactions on Power Systems* 37(3), pp. 1868-1880
164. V. Dvorkin, A. Ratha, **P. Pinson**, J. Kazempour (2022). Stochastic control and pricing for natural gas networks. *IEEE Transactions on Control of Networked Systems* 9(1), pp. 450-462
163. V. Dvorkin , A. Botterud , D. Mallapragada , J. Kazempour, **P. Pinson** (2022). Multi-stage linear decision rules for stochastic control of natural gas networks with linepack. *Electric Power Systems Research* 212, art. no. 108388
162. L Herre, **P. Pinson**, S. Chatzivasileiadis (2022). Reliability-aware probabilistic reserve procurement. *Electric Power Systems Research* 212, art. no. 108345
161. L. Bai, J. Wang, **P. Pinson** (2022). Variable heat pricing to steer the flexibility of heat demand response in district heating systems. *Electric Power Systems Research* 212, art. no. 108383
160. L. Han, **P. Pinson**, J. Kazempour (2022). Trading data for wind power forecasting: A regression market with Lasso regularization. *Electric Power Systems Research* 212, art. no. 108442

2021

159. V. Dvorkin Jr., F. Fioretto, P. Van Hentenryck, J. Kazempour, **P. Pinson** (2021). Differentially-private optimal power flow for distribution grids. *IEEE Transactions on Power Systems* 36(3), pp. 2186-2196
158. A. Tosatto, F. Moret, T. Baroche, **P. Pinson** (2021). Loss allocation in joint transmission and distribution peer-to-peer markets. *IEEE Transactions on Power Systems* 36(3), pp 1833-1842
157. L. Frölke, T. Sousa, **P. Pinson** (2021). A network-aware market mechanism for decentralized district heating systems. *Applied Energy* 306(A), art. no. 117956
156. Z. Guo, **P. Pinson**, S. Chen, Q. Yang, Z. Yang (2021). Online optimization for real-time peer-to-peer market mechanisms. *IEEE Transactions on Smart Grid* 12(5), pp. 4151-4163
155. A. Schwele, J. Kazempour, C. Ordoudis, **P. Pinson** (2021). Virtual bidding for coordination of power and natural gas markets under uncertainty. *Computational Management Science* 18, pp. 505-538
154. C. Ziras, T. Sousa, **P. Pinson** (2021). What do prosumer marginal utility functions look like? Derivation and analysis. *IEEE Transactions on Power Systems* 36(5), pp. 4322-4330
153. L. Bobo, L. Mitridati, J. Kazempour, J. Taylor, **P. Pinson** (2021). Price-region bids in forward electricity markets. *European Journal of Operational Research*, 295(3), pp. 1056-1073
152. G. Tsaousoglou, J. S. Giraldo, **P. Pinson**, N. G. Paterakis (2021). Mechanism design for fair and efficient DSO flexibility markets. *IEEE Transactions on Smart Grid* 12(3), pp. 2249 - 2260
151. N. Viafora, S. Delikaraoglou, **P. Pinson**, G. Hug, J. Holbøll (2021). Dynamic reserve and transmission capacity allocation in wind-dominated power systems. *IEEE Transactions on Power Systems* 36(4), pp. 3017-3028
150. A.M. Radoszynski, **P. Pinson** (2021). Electric demand response and bounded rationality – Mean-field control for large populations of heterogenous bounded-rational agents. *Philosophical Transactions of the Royal Society A* 379(2202), art. no. 20190429
149. C. Ordoudis, V. A. Nguyen, D. Kuhn, **P. Pinson** (2021). Energy and reserve dispatch with distributionally robust joint chance constraints. *Operations Research Letters* 49(3), pp. 291-299
148. Z. Guo, **P. Pinson**, S. Chen, Q. Yang, Z. Yang (2021). Chance-constrained peer-to-peer joint energy and reserve market considering renewable energy uncertainty. *IEEE Transactions on Smart Grid* 12(1), pp. 798-809
147. C. Goncalves, **P. Pinson**, R. Bessa (2021). Towards data markets in renewable energy forecasting. *IEEE Transactions on Sustainable Energy* 12(1), pp. 533-542
146. C. Goncalves, R. Bessa, **P. Pinson** (2021). A critical overview of privacy-preserving approaches to collaborative forecasting. *International Journal of Forecasting* 37(1), pp. 322-342
145. B. Sommer, **P. Pinson**, J.W. Messner, D. Obst (2021). Online distributed learning in wind power forecasting. *International Journal of Forecasting* 37(1), pp. 205-223
144. L. Mitridati, J. Kazempour, **P. Pinson** (2021). Design and game-theoretical analysis of community-based market mechanisms in heat and electricity systems. *Omega* 99, art. no. 102177
143. C. Di Modica, **P. Pinson**, S. Ben Taieb (2021). Online forecast reconciliation in wind power prediction. *Electric Power Systems Research* 190, art. no. 106637

2020

142. T. Hong, **P. Pinson**, Y. Wang, R. Weron, D. Yang, H. Zareipour (2020). Energy forecasting: A review and outlook. *IEEE Open Access Journal of Power and Energy* 7, pp. 376-388
141. Y. Xiao, X. Wang, **P. Pinson**, X. Wang (2020). Transactive energy based aggregation of prosumers. *IEEE Transactions on Smart Grid* 11(4), pp. 3302-3312
140. A. Ratha, A. Schwele, J. Kazempour, **P. Pinson**, S.S. Torbaghan, A. Virag (2020). Affine policies for flexibility provision by natural gas networks to power systems. *Electric Power Systems Research* 189, art. no. 106565
139. M Kezunovic, **P. Pinson**, Z. Obradovic, S. Grijalva, T. Hong, R. Bessa (2020). Big data analytics for future electricity grids. *Electric Power Systems Research* 189, art. no. 106788
138. F. Moret, A. Papakonstantinou, **P. Pinson** (2020). Heterogenous risk preferences in community-based electricity markets. *European Journal of Operational Research* 287(1), pp. 36-48
137. D. Thomas, J. Kazempour, A. Papakonstantinou, **P. Pinson**, O. Deblecker, C.S. Ioakimidis (2020). A local market mechanism for physical storage rights. *IEEE Transactions on Power Systems* 35(4), pp. 3087-3099
136. J. W. Messner, **P. Pinson**, J. Browell, M. B. Bjerregård, I. Schicker (2020). Evaluation of wind power forecasts – An up-to-date view. *Wind Energy* 23(6), pp. 1461-1481
135. F. Pourahmadi, J. Kazempour, C. Ordoudis, **P. Pinson**, S.H. Hosseini (2020). Distributionally robust chance-constrained generation expansion planning. *IEEE Transactions on Power Systems* 35(4), pp. 2888-2903
134. C. Ordoudis, S. Delikaraoglou, J. Kazempour, **P. Pinson** (2020). Market-based coordination for integrated electricity and natural gas systems under uncertain supply. *European Journal of Operational Research* 287(3), pp. 1105-1119

133. J. Le Gal La Salle, J. Badosa, M. David, **P. Pinson**, P. Lauret (2020). Added-value of ensemble prediction system on the quality of solar irradiance probabilistic forecasts. *Renewable Energy* 162, pp. 1321-1339
132. A. Schwele, J. Kazempour, **P. Pinson** (2020). Do unit commitment constraints affect generation expansion planning? A scalable stochastic model. *Energy Systems* 11(2), pp. 247-282
131. L. Mitridati, J. Kazempour, **P. Pinson** (2020). Heat and electricity market coordination: A scalable complementarity approach. *European Journal of Operational Research* 283(3), pp. 1107-1123
130. N. Viafora, S. Delikaraoglou, **P. Pinson**, J. Holbøll (2020). Chance-constrained optimal power flow with non-parametric probability distributions of dynamic line ratings. *International Journal of Electric Power and Energy Systems* 114, art. no. 105389
129. C. Sweeney, R. Bessa, J. Browell, **P. Pinson** (2020). The future of forecasting for renewable energy. *WIREs: Energy and Environment* 9(2), art. no. e365
128. **P. Pinson** (2020). Editorial. *International Journal of Forecasting* 36(2), pp. 229-231
127. G. Le Ray, **P. Pinson** (2020). The ethical smart grid: Enabling a fruitful and long-lasting relationship between utilities and electricity consumers. *Energy Policy*, 140, art. no. 111258
126. C. Ziras, J. Kazempour, E.C. Kara, H.W. Bindner, **P. Pinson**, S. Kiliccote (2020). A mid-term DSO market for capacity limits: How to estimate opportunity costs of aggregators? *IEEE Transactions on Smart Grid* 11(1), pp. 334-345
125. C. Gilbert, J.W. Messner, **P. Pinson**, P.-J. Trombe, R. Verzijlbergh, P. van Dorp, H. Jonker (2020). Statistical post-processing of turbulence-resolving weather forecasts for offshore wind power forecasting. *Wind Energy* 23(4), pp. 884-897
124. P. Nystrup, E. Lindström, H. Madsen, **P. Pinson** (2020). Temporal hierarchies with autocorrelation for load forecasting. *European Journal of Operational Research* 280(3), pp. 876-888

2019

123. M.H. Christensen, **P. Pinson**, R. Li (2019). Demand-side management of heat in smart homes: Living-lab experiments. *Energy* 195, art. no. 116993
122. P. Lauret, M. David, **P. Pinson** (2019). Verification of solar irradiance probabilistic forecasts. *Solar Energy* 194, pp. 254-271
121. A. Papakonstantinou, G. Champeri, S. Delikaraoglou, **P. Pinson**, (2019). Optimal trading strategies for stochastic producers participating in financial and electricity markets. *Wind Energy* 22(11), pp. 1487-1499
120. F. Moret, **P. Pinson** (2019). Energy Collectives: a community and fairness based approach to future electricity markets. *IEEE Transactions on Power Systems* 34(5), pp. 3994-4004
119. V. Dvorkin, J. Kazempour, **P. Pinson** (2019). Electricity market equilibrium under information asymmetry. *Operations Research Letters* 47(6), pp. 521-526
118. T. Hong, **P. Pinson**, (2019). Energy forecasting in the big data world. *International Journal of Forecasting* 35(4), pp. 1387-1388
117. S. Delikaraoglou, **P. Pinson** (2019). Optimal allocation of HVDC interconnections for exchange of energy and reserve capacity services. *Energy Systems* 10(3), pp. 635-675
116. J.W. Messner, **P. Pinson** (2019). Online adaptive LASSO estimation in Vector Auto Regressive models for wind power forecasting in high dimension. *International Journal of Forecasting* 35(4), pp. 1485-1498
115. L. Exizidis, J. Kazempour, A. Papakonstantinou, **P. Pinson**, Z. de Greve, F. Vallee (2019). Incentive-compatibility in a two-stage stochastic electricity market with high wind power penetration. *IEEE Transactions on Power Systems* 34(4), pp. 2846-2858
114. T. Baroche, **P. Pinson**, R. Le Goff Latimier, H. Ben Ahmed (2019). Exogenous approach to grid cost allocation in peer-to-peer electricity markets. *IEEE Transactions on Power Systems* 34(4), pp. 2553-2564
113. C. Ordoudis, **P. Pinson**, J.M. Morales (2019). An integrated market for electricity and natural gas systems with stochastic power producers. *European Journal of Operational Research* 272(2), pp. 642-654
112. F. Golestaneh, **P. Pinson**, H.G. Gooi (2019). Polyhedral predictive regions for power system applications. *IEEE Transactions on Power Systems* 34(1), pp. 693-704
111. L. Bai, **P. Pinson** (2019). Forecast reconciliation in day-ahead wind power forecasting. *Energies* 12, art. no. 1112
110. E. Sorin, **P. Pinson**, L.A. Bobo (2019). Consensus-based negotiation mechanisms for differentiated products in peer-to-peer electricity markets. *IEEE Transactions on Power Systems* 34(2), pp. 994-1004
109. L. Halilbasic, **P. Pinson**, S. Chatzivasileiadis (2019). Convex relaxations and approximations of chance-constrained AC-OPF problems. *IEEE Transactions on Power Systems* 34(2), pp. 1459-1470
108. T. Sousa, T. Soares, **P. Pinson**, F. Moret, T. Baroche, E. Sorin (2019). Peer-to-peer and community-driven markets: a comprehensive review. *Renewables & Sustainable Energy Reviews* 104, pp. 367-378
107. G. Le Ray, **P. Pinson** (2019). Online adaptive clustering algorithm for load profiling. *Sustainable Energy, Grids and Networks* 17, art. no. 100181

2018

106. T. Soares, R. Bessa, **P. Pinson**, H. Morais (2018). Active distribution grid management based on robust AC optimal power flow. *IEEE Transactions on Smart Grid* 9(6), pp. 6229-6241
105. Y. Zhao, L. Ye, **P. Pinson**, Y. Tang (2018). Correlation-constrained and sparsity-controlled vector autoregressive model for spatio-temporal wind power forecasting. *IEEE Transactions on Power Systems* 33(5), pp. 3531-3545
104. S. Cros, **P. Pinson** (2018). Prévision météorologique pour les énergies renouvelables. *La Météorologie* 100, pp. 1-8
103. J. Kazempour, **P. Pinson**, B. Hobbs (2018). Stochastic market design with revenue adequacy and cost recovery by scenario: benefits and costs. *IEEE Transactions on Power Systems* 33(4), pp. 3531-3545
102. F. Golestaneh, **P. Pinson**, R. Azizipanah-Abarghooee, H.B. Gooi (2018). Ellipsoidal prediction regions for multivariate uncertainty characterization. *IEEE Transactions on Power Systems* 33(4), pp. 4519-4530
101. A. Lenzi, I. Steinsland, **P. Pinson** (2018). Benefits of spatio-temporal modelling for short term wind power forecasting at both individual and aggregated levels. *Environmetrics* 29(3), art. no. 2493
100. T.V. Jensen, J. Kazempour, **P. Pinson** (2018). Cost-optimal ATCs in zonal electricity markets. *IEEE Transactions on Power Systems* 33(4), pp. 3624-3633

99. Y. Xiao, X. Wang, **P. Pinson**, X. Wang (2018). A local energy market for electricity and hydrogen. *IEEE Transactions on Power Systems* 33(4), pp. 3898-3908
98. R.J. Hyndman, X. Liu, **P. Pinson** (2018). Visualizing big energy data. *IEEE Power Energy Magazine* 16(3), special issue on Big Data Analytics, pp. 18-25
97. L. Mitridati, **P. Pinson** (2018). Bayesian approach to unveiling supply curves in electricity markets. *IEEE Transactions on Power Systems* 33(3), pp. 2610-2620
96. N. Mazzi, J. Kazempour, **P. Pinson** (2018). Price-taker offering strategy in electricity pay-as-bid markets. *IEEE Transactions on Power Systems* 33(2), pp. 2175-2183
95. G. Le Ray, **P. Pinson**, E.M. Larsen (2018). Evaluating price-based demand response in practice – With application to the EcoGrid EU experiment. *IEEE Transactions on Smart Grid* 9(3), pp. 2304-2313
94. Q. Wang, C. Zhang, J. Wang, **P. Pinson**, J. Østergaard (2018). Real-time trading strategies of proactive DISCO with heterogeneous DG owners. *IEEE Transactions on Smart Grid* 9(3), pp. 1688-1697
93. C. Zhang, Q. Wang, J. Wang, J.M. Morales, **P. Pinson**, J. Østergaard (2018). Real-time procurement strategies of a proactive distribution company with aggregator-based demand response. *IEEE Transactions on Smart Grid* 9(2), pp. 766-776

2017

92. **P. Pinson**, T. Baroche, F. Moret, T. Sousa, E. Sorin, S. You (2017). The emergence of consumer-centric electricity markets. *Utilities* (in Chinese)
91. L. Exizidis, J. Kazempour, **P. Pinson**, Z. De Grève, F. Vallée (2017). Impact of public aggregate wind forecasts on electricity market outcomes. *IEEE Transactions on Sustainable Energy* 8(4), pp. 1394-1405
90. A Lenzi, **P. Pinson**, L.K.H. Clemmensen, G. Guillot (2017). Spatial models for probabilistic prediction of wind power with application to yearly average and high temporal resolution data. *Stochastic Environmental Research Risk Assessment* 31(7), pp. 1615-1631
89. T. Soares, T.V. Jensen, N. Mazzi, **P. Pinson**, H. Morais (2017). Optimal offering and allocation policies for wind power in energy and reserve markets. *Wind Energy* 20(11) pp. 1851-1870
88. Z. Xu, L.L. Lai, K.P. Wong, **P. Pinson**, F. Li (2017). Guest editorial: Special section on emerging informatics for risk hedging and decision making in smart grids. *IEEE Transactions on Industrial Informatics* 13(5): 2507-2510
87. T.V. Jensen, **P. Pinson** (2017). RE-Europe: a large-scale dataset for a future renewable-energy based European power system. *Nature, Scientific Data* 4, art. no. 170175
86. H. Ding, **P. Pinson**, Z. Hu, J. Wang, Y. Song (2017). Optimal offering and operating strategy for a large wind-storage system as a price maker. *IEEE Transactions on Power Systems* 32(6): 4904-4913
85. F. Bona, N. Gast, J.-Y. Le Boudec, **P. Pinson**, D. Tomozei (2017). Attribution mechanisms for ancillary service costs induced by variability in power delivery. *IEEE Transactions on Power Systems* 32(3): 1891-1901
84. E.M. Larsen, **P. Pinson**, F. Leimgruber, F. Judex (2017). From demand response evaluation to forecasting - Methods and results from the EcoGrid EU experiment. *Sustainable Energy, Grids and Networks* 10: 75-83
83. **P. Pinson**, L. Mitridati, C. Ordoudis, J. Østergaard (2017). Towards fully renewable energy systems – Experience and trends in Denmark. *CSEE Journal of Power and Energy Systems* 3(1): 26-35
82. Y. Zhan, Q.P. Zheng, J. Wang, **P. Pinson** (2017). Decision-dependent stochastic generation expansion planning with large amounts of wind power *IEEE Transactions on Power Systems* 32(4): 3015-3026
81. P. Wang. F. Wen, **P. Pinson**, J. Østergaard (2017). A ranking method for peak load shifting considering different types of data. *ASCE Journal of Energy Engineering* 142(4), art. no. 04016016

2016

80. T. Hong, **P. Pinson**, S. Fan, H. Zareipour, A. Troccoli, R. Hyndman (2016). Probabilistic energy forecasting: Global Energy Forecasting Competition 2014 and beyond. *International Journal of Forecasting* 32(3), pp. 896-913
79. F. Golestaneh, **P. Pinson**, H.B. Gooi (2016). Very short-term nonparametric probabilistic forecasting of renewable energy generation - with application to solar energy. *IEEE Transactions on Power Systems* 31(5): 3850-3863
78. Z. Ben Bouallègue, T. Heppelmann, S. Theis, **P. Pinson** (2016). Generation of scenarios from calibrated ensemble forecasts with a dynamic ensemble copula coupling approach. *Monthly Weather Review* 31(5), pp. 4737-4750
77. M. Xu, **P. Pinson**, Z. Lu, Y. Qiao, Y. Min (2016). Adaptive robust polynomial regression for power curve modeling with application to wind power forecasting. *Wind Energy* 19(12), pp. 2321-2336
76. A. Papakonstantinou, **P. Pinson** (2016). Information uncertainty in electricity markets: Introducing probabilistic offers. *IEEE Transactions on Power Systems* 31(6), pp. 5202-5203
75. S. Delikaraoglou, J.M. Morales, **P. Pinson** (2016). Impact of inter- and intra-regional coordination in markets with a large renewable component. *IEEE Transactions on Power Systems* 31(6), pp. 4755-4764
74. H. Ding, **P. Pinson**, Z. Hu, Y. Song (2016). Optimal offering for wind-storage systems using linear decision rules. *IEEE Transactions on Power Systems* 31(6), pp. 5061-5070
73. T. Soares, **P. Pinson**, T.V. Jensen, H. Morais (2016). Optimal offering strategies for wind power in energy and primary reserve markets. *IEEE Transactions on Sustainable Energy* 7(3), pp. 1036-1045
72. C. Zhang, Q. Wang, J. Wang, M. Korpås, **P. Pinson**, J. Østergaard, M.E. Khodayar (2016). Trading strategies for distribution company with stochastic distributed energy resources. *Applied Energy* 177, pp. 625-635
71. F. Golestaneh, **P. Pinson**, H.B. Gooi (2016). Generation and evaluation of space-time trajectories of photovoltaic generation. *Applied Energy* 176, pp. 80-91
70. L. Exizidis, J. Kazempour, **P. Pinson**, Z. De Greve, F. Vallée (2016). Sharing wind power forecasts in electricity markets: A numerical analysis. *Applied Energy* 176, pp. 65-73
69. W.A. Bukhsh, C. Zhang, **P. Pinson** (2016). A multiperiod OPF model under renewable generation uncertainty and demand-side flexibility. *IEEE Transactions on Smart Grid* 7(3), pp. 1495-1503
68. N. Davis, **P. Pinson**, A. Hahmann, N.-E. Clausen, M. Zagar (2016). Identifying and characterizing the impact of turbine icing on wind farm power generation. *Wind Energy* 19(8), pp. 1503-1518

67. N. O'Connell, **P. Pinson**, H. Madsen, M. O'Malley (2016). Economic dispatch of demand-side balancing through asymmetric block offers. *IEEE Transactions on Power Systems* 31(4), pp. 2999-3007
66. J. Dowell, **P. Pinson** (2016). Very-short-term probabilistic wind power forecasts by sparse vector autoregression. *IEEE Transactions on Smart Grid* 7(2), pp. 763-770
65. G. He, Q. Chen, C. Kang, **P. Pinson**, Q. Xia (2016). Optimal bidding strategy of battery storage in power markets considering performance based regulation and battery cycle life. *IEEE Transactions on Smart Grid* 7(5), pp. 2359-2367
64. Z. Ben Bouallègue, **P. Pinson**, P. Friederichs (2016). Quantile forecast discrimination ability and value. *Quarterly Journal of the Royal Meteorological Society* 141(693), pp. 3415-3424
63. H. Ding, **P. Pinson**, Z. Hu, Y. Song (2016). Integrated bidding and operating strategies for wind farms enhanced with storage. *IEEE Transactions on Sustainable Energy* 7(1), pp. 163-172

2015

62. A. Michiorri, H.M. Nguyen, S. Alessandrini, J.B. Bremnes, S. Dierer, E. Ferrero, B.E. Nygaard, **P. Pinson**, N. Thomaidis, S. Uski-Joutsenvuo (2015). Forecasting for dynamic line rating. *Renewable & Sustainable Energy Reviews* 52, pp. 1713-1730
61. A. Staid, **P. Pinson**, S.D. Guikema (2015). Probabilistic maximum-value wind prediction for offshore environments. *Wind Energy* 18(10), pp. 1725-1738
60. S. Sperati, S. Alessandrini, **P. Pinson**, G. Kariniotakis (2015). The "WIRE" benchmarking exercise on short-term forecasting models for renewable power generation. *Energies* 8(9), pp. 9594-9619
59. **P. Pinson**, M. O'Malley (2015). Foreword for the special section on wind and solar energy: uncovering and accommodating their impacts on electricity markets. *IEEE Transactions on Power Systems* 30(3), pp. 1557-1559
58. H.M.I. Pousinho, J. Contreras, **P. Pinson**, V.M.F. Mendes (2015). Offering strategies for hybrid concentrated solar-fossil power plants through robust optimization. *International Journal of Electric Power and Energy Systems* 67, pp. 639-650

2014

57. P.-J. Trombe, **P. Pinson**, *et al.* (2014). Weather radars - the new eyes of offshore wind farms. *Wind Energy* 17(11), pp. 1767-1787
56. T. Jónsson, **P. Pinson**, H.Aa. Nielsen, H. Madsen (2014). Density forecasting of day-ahead electricity prices using time-adaptive quantile regression. *Energies* 7(9), pp. 5523-5547
55. N. O'Connell, **P. Pinson**, H. Madsen, M. O'Malley (2014). Benefits and challenges of electric demand response: A critical review. *Renewable & Sustainable Energy Reviews* 39, pp. 686-699
54. C. Zhang, Y. Ding, N.C. Nordentoft, **P. Pinson**, J. Østergaard (2014). FLECH - A Danish market solution for DSO congestion management through DER flexibility services. *Journal of Modern Power System and Clean Energy* 2(2), pp. 126-133
53. **P. Pinson**, J. Tastu (2014). Discussion of "Prediction intervals for short-term wind farm generation forecasts" and "Combined nonparametric prediction intervals for wind power generation". *IEEE Transactions on Sustainable Energy* 5(3), pp. 1018-1019
52. T. Jónsson, **P. Pinson**, H.Aa. Nielsen, H. Madsen (2014). Exponential smooting approaches for prediction in real-time electricity markets. *Energies* 7(6), pp. 3710-3732
51. T.I. Petroliagis, **P. Pinson** (2014). Early warnings of extreme winds utilising the ECMWF Extreme Forecast Index. *Meteorological Applications* 21(2), pp. 171-185
50. C. Wan, Z. Xu, **P. Pinson**, Z.Y. Dong, K.P. Wong (2014). Optimal prediction intervals of wind power generation. *IEEE Transactions on Power Systems* 29(3), pp. 1166-1174
49. C. Wan, Z. Xu, **P. Pinson**, Z.Y. Dong, K.P. Wong (2014). Probabilistic forecasting of wind power generation using extreme learning machine. *IEEE Transactions on Power Systems* 29(3): pp. 1033-1044 (invited)
48. T. Hong, **P. Pinson**, S. Fan (2014). Global Energy Forecasting Competition 2012 (GEFCom2012). *International Journal of Forecasting* 30(2), pp. 357-363
47. **P. Pinson** (2014). Comments on: Space-time wind speed forecasting for improved power system dispatch. *TEST* 23(1), pp. 26-29
46. J.M. Morales, M. Zugno, S. Pineda, **P. Pinson** (2014). Redefining the merit order of stochastic generation in forward markets. *IEEE Transactions on Power Systems* (Power Engineering Letters) 29(2), pp. 992-993
45. J.M. Morales, M. Zugno, S. Pineda, **P. Pinson** (2014). Electricity market clearing with improved dispatch of stochastic producers. *European Journal of Operational Research* 235(3), pp. 765-774
44. J. Tastu, **P. Pinson**, P.-J. Trombe, H. Madsen (2014). Probabilistic forecasts of wind power generation accounting for geographically dispersed information. *IEEE Transactions on Smart Grid* 5(1), pp. 480-489
43. T. Hong and co-authors (2014). Guest editorial: Special section on analytics for energy forecasting with applications to smart grid. *IEEE Transactions on Smart Grid* 5(1), pp. 399-401
42. P.-J. Trombe, **P. Pinson**, H. Madsen (2014). Automatic classification of offshore wind regimes with weather radar observations. *IEEE Journal of Selected Topics in Earth Observations and Remote Sensing* 7(1), pp. 116-125

2013

41. **P. Pinson** (2013). Wind energy: Forecasting challenges for its optimal management. *Statistical Science* 28(4), pp. 564-585 (invited)
40. G. Dorini, **P. Pinson**, H. Madsen (2013). Chance-constrained optimization of demand response to price signals. *IEEE Transactions on Smart Grid* 4(4), pp. 2072-2080
39. M. Zugno, **P. Pinson**, H. Madsen (2013). The impact of wind power on European cross-border power flows. *IEEE Transactions on Power Systems* 28(4), pp. 3566-3575
38. C. Wan, Z. Xu, **P. Pinson** (2013). Direct interval forecasting of wind power. *IEEE Transactions on Power Systems* (Power Engineering Letters) 28(4), pp. 4877-4878
37. M. Zugno, T. Jónsson, **P. Pinson** (2013). Trading wind energy on the basis of probabilistic forecasts of both wind generation and market quantities. *Wind Energy* 16(6), pp. 909-926
36. M. Zugno, J.M. Morales, **P. Pinson**, H. Madsen (2013). Pool strategy of a price-maker wind power producer. *IEEE Transactions on Power Systems* 28(3), pp. 3440-3450

35. S. Alessandrini, S. Sperati, **P. Pinson** (2013). A comparison between the ECMWF and COSMO Ensemble Prediction Systems applied to short-term wind power forecasting. *Applied Energy* 107, pp. 271-280
34. M. Zugno, J.M. Morales, **P. Pinson**, H. Madsen (2013). A bilevel model for electricity retailers participation in a demand response market environment. *Energy Economics* 36, pp. 182-197
33. O. Corradi, H. Ochsenfeld, H. Madsen, **P. Pinson** (2013). Controlling electricity consumption by forecasting its response to varying prices *IEEE Transactions on Power Systems* 28(1), pp. 421-429
32. T. Jónsson, **P. Pinson**, H.Aa. Nielsen, H. Madsen, T.S. Nielsen (2013). Forecasting day-ahead electricity prices accounting for the impact of wind power generation. *IEEE Transactions on Sustainable Energy* 4(1), pp. 210-218

2012

31. **P. Pinson**, R. Hagedorn (2012). Verification of the ECMWF ensemble forecasts of wind speed against analyses and observations. *Meteorological Applications* 13(4), pp. 484-500
30. **P. Pinson** (2012). Adaptive calibration of (u, v)-wind ensemble forecasts. *Quarterly Journal of the Royal Meteorological Society* 138(666), pp. 1273-1284
29. **P. Pinson** (2012). Very short-term probabilistic forecasting of wind power with generalized logit-Normal distributions. *Journal of the Royal Statistical Society, Series C* 61(4), pp. 555-576
28. **P. Pinson**, R. Girard (2012). Evaluating the quality of scenarios of short-term wind power generation. *Applied Energy* 96, pp. 12-20
27. J.M. Morales, **P. Pinson**, H. Madsen (2012). A transmission-cost-based model to estimate the amount of market-integrable wind resources. *IEEE Transactions on Power Systems* 27(2), pp. 1060-1069
26. **P. Pinson**, H. Madsen (2012). Adaptive modeling and forecasting of wind power fluctuations with Markov-switching autoregressive models. *Journal of Forecasting* 31(4), pp. 281-313
25. P.-J. Trombe, **P. Pinson**, H. Madsen (2012). A general probabilistic forecasting framework for offshore wind power fluctuations. *Energies* 5(3), pp. 621-657
24. **P. Pinson**, G. Reikard, J. Bidlot (2012). Probabilistic forecasting of the wave energy flux. *Applied Energy* 93, pp. 364-370

2011

23. C.L. Vincent, **P. Pinson**, G. Giebel (2011). Wind fluctuations over the North Sea. *International Journal of Climatology* 31(11), pp. 1584-1595
22. C. Gallego, **P. Pinson**, H. Madsen, A. Costa, A. Cuerva (2011). Influence of local wind speed and direction on wind power dynamics - Application to offshore very short-term prediction. *Applied Energy* 88(11), pp. 4087-4096
21. G. Reikard, **P. Pinson**, J. Bidlot (2011). Forecasting ocean waves - The ECMWF wave model and time-series methods. *Ocean Engineering* 38(10), pp. 1089-1099
20. J. Tastu, **P. Pinson**, E. Kotwa, H.Aa. Nielsen, H. Madsen (2011). Spatio-temporal analysis and modeling of wind power forecast errors. *Wind Energy* 14(1), pp. 43-60

2010

19. F. Thordarson, H. Madsen, H.Aa. Nielsen, **P. Pinson** (2010). Conditional weighted combination of wind power forecasts. *Wind Energy* 13(8), pp. 751-763
18. **P. Pinson**, G. Kariniotakis (2010). Conditional prediction intervals of wind power generation. *IEEE Transactions on Power Systems* 25(4), pp. 1845-1856
17. C.L. Vincent, G. Giebel, **P. Pinson**, H. Madsen (2010). Resolving non-stationary spectral signals in wind speed time-series using the Hilbert-Huang transform. *Journal of Applied Meteorology and Climatology* 49(2), pp. 253-267
16. **P. Pinson**, P. McSharry, H. Madsen (2010). Reliability diagrams for nonparametric density forecasts of continuous variables: accounting for serial correlation. *Quarterly Journal of the Royal Meteorological Society* 136(646), pp. 77-90
15. T. Jónsson, **P. Pinson**, H. Madsen (2010). On the market impact of wind energy forecasts. *Energy Economics* 32(2), pp. 313-320
14. P. Giabardo, M. Zugno, **P. Pinson**, H. Madsen (2010). Feedback, competition and stochasticity in a day-ahead electricity market. *Energy Economics* 32(2), pp. 292-301

2009

13. **P. Pinson**, H.Aa. Nielsen, H. Madsen, G. Kariniotakis (2009). Skill forecasting from ensemble predictions of wind power. *Applied Energy* 86(7-8), pp. 1326-1334
12. **P. Pinson**, H. Madsen (2009). Ensemble-based probabilistic forecasting at Horns Rev. *Wind Energy* 12(2), pp. 137-155
11. **P. Pinson**, G. Papaefthymiou, B. Klöckl, H.Aa. Nielsen, H. Madsen (2009). From probabilistic forecasts to statistical scenarios of short-term wind power production. *Wind Energy* 12(1), pp. 51-62
10. **P. Pinson**, T.S. Nielsen, H.Aa. Nielsen, N.K. Poulsen, H. Madsen (2009). Temperature prediction at critical points in district heating systems. *European Journal of Operational Research* 194(1), pp. 163-176

2008

9. B. Klöckl, G. Papaefthymiou, **P. Pinson** (2008). Probabilistic tools for planning and operating power systems with distributed energy storage. *E I Elektrotechnik und Informationstechnik* 125(12), pp. 460-465
8. **P. Pinson**, H.Aa. Nielsen, H. Madsen, T.S. Nielsen (2008). Local linear regression with adaptive orthogonal fitting for the wind power application. *Statistics and Computing* 18(1), pp. 59-71
7. P. Sørensen, N.A. Cutululis, A. Vigueras-Rodriguez, H. Madsen, **P. Pinson**, L.E. Jensen, J. Hjerrild, M. Donovan (2008). Modelling of power fluctuations from large offshore wind farms. *Wind Energy* 11(1), pp. 29-43
6. **P. Pinson**, L.E.A. Christensen, H. Madsen, P.E. Sørensen, M.H. Donovan, L.E. Jensen (2008). Regime-switching modelling of the fluctuations of offshore wind generation. *Journal of Wind Engineering and Industrial Aerodynamics* 96(12), pp. 2327-2347

2007

5. **P. Pinson**, C. Chevallier, G. Kariniotakis (2007). Trading wind generation with short-term probabilistic forecasts of wind power. *IEEE Transactions on Power Systems* 22(3), pp. 1148-1156
4. **P. Pinson**, H.Aa. Nielsen, J.K. Møller, H. Madsen, G. Kariniotakis (2007). Nonparametric probabilistic forecasts of wind power: required properties and evaluation. *Wind Energy* 10(6), pp. 497-516
3. **P. Pinson**, S. Lozano, I. Marti, G. Kariniotakis, G. Giebel (2007). ViLab: a Virtual Laboratory for collaborative research on wind power forecasting. *Wind Engineering* 31(2), pp. 117-121

2005

2. H. Madsen, **P. Pinson**, T.S. Nielsen, H.Aa. Nielsen, G. Kariniotakis (2005). Standardizing the performance evaluation of short-term wind power prediction models. *Wind Engineering* 29(6), pp. 475-489

2004

1. **P. Pinson**, G. Kariniotakis (2004). On-line assessment of prediction risk for wind power production forecasts. *Wind Energy* 7(2), pp. 119-132

Book chapters

7. **P. Pinson**, F. Moret, T. Baroche, A. Papakonstantinou (2020). Negotiation approaches for sharing systems - From pool-based to peer-to-peer. *Control and Optimization Analytics for the Sharing Economy - New Opportunities for Engineers and Mathematicians* , Springer
6. N. Mazzi, **P. Pinson** (2017). Wind power in electricity markets and the value of forecasting. *Renewable Energy Forecasting - From Models to Applications*, Elsevier, pp. 259-278
5. **P. Pinson**, J. Messner (2017). Application of post-processing for renewable energy. *Statistical Processing of Ensemble forecasts*, Elsevier
4. J. Tastu, **P. Pinson**, H. Madsen (2015). Space-time trajectories of wind power generation: Parametrized precision matrices under a Gaussian copula approach. *Lecture Notes in Statistics: Modeling and Stochastic Learning for Forecasting in High Dimension*, Springer, pp. 267-296
3. R. Bessa, J. Dowell, **P. Pinson** (2015). Renewable energy forecasting. *Smart Grid Handbook*, Wiley, pp. 1-21
2. **P. Pinson**, G. Giebel, N.-E. Clausen (2013). Onshore and offshore wind energy. In: R. Pielke, G. Kallos (eds.), *Reference Module in Earth Systems and Environmental Sciences* (Elsevier), from *Climate Vulnerability*, pp. 53-64
1. **P. Pinson**, P. McSharry, R. Girard (2013). Stochastic power generation. In: H.H. Larsen and L.S. Petersen (eds.), *DTU International Energy Report 2013: Energy storage options for future sustainable energy systems*, pp. 24-28

Broader readership

7. **P. Pinson** (2022). To share or not to share – the future of collaborative forecasting. *Foresight*
6. S. Cros, **P. Pinson** (2018). Le défi météorologique des énergies solaire et éolienne pour les énergies renouvelables. *La Revue des Mines*
5. **P. Pinson**, H. Madsen (2013). Forecasting the conditional dynamic elasticity of electricity consumers. *ERCIM News* 92, pp. 11
4. **P. Pinson** (2013). Prévoir l'électricité produite par nos énergies renouvelables (in French). Mathematics for Planet Earth (Mathématiques de la planète Terre), "Un jour, une brève", `mpt2013.fr`
3. **P. Pinson** (2013). Rendre la consommation d'électricité plus flexible et controlable (in French). Mathematics for Planet Earth (Mathématiques de la planète Terre), "Un jour, une brève", `mpt2013.fr`
2. T.I. Petroliagis, **P. Pinson** (2012). Early indication of extreme winds utilising the Extreme Forecast Index. *ECMWF Newsletter* 132, pp. 13-19
1. **P. Pinson**, G. Giebel, H. Madsen (2008). Forecasting of wind generation - The wind power of tomorrow on your screen today! *WindTech International* 4(8), pp. 32-35