

**DEREK W. BUNN**  
**Academic Curriculum Vitae**  
**2022**

**Derek W. Bunn** is a Professor at London Business School. Having read Natural Sciences at Trinity College, Cambridge University, he received a PhD in Economics from London Business School (1975) and was subsequently elected CEGB Fellow in Engineering at Oxford University. Occasionally since then, he has been a visiting professor at Stanford University and elsewhere. Author of over 200 research papers and 10 books in the areas of forecasting, decision analysis and energy economics, including *Analysis for Optimal Decisions*, *Applied Decision Analysis*, *Systems Models for Energy Policy* and *Modelling Prices in Competitive Electricity Markets*, he has also been recipient of several professional and industry awards, including the Goodeve Medal of the UK Operational Research Society. Elected international council member of *The Institute of Management Sciences* (1992-1994), he represented the societies' international interests in the merger executive with *ORSA* to create *INFORMS*. More recently he has served as council member of the British Institute of Energy Economists. Chief editor of *Journal of Forecasting* since 1984, formerly chief editor of *Energy Economics*,<sup>2</sup> and founding editor of the *Journal of Energy Markets*, he has also served on the editorial boards of many other journals, including *Management Science*. His work has been extensively cited<sup>1</sup> and translated into many languages. He has been a regular keynote speaker at international research and practitioner conferences.

His work in energy goes back to 1978 when he took up a Fellowship at Oxford University, in engineering economics, endowed by the Central Electricity Generating Board. During that period he worked on electricity demand forecasting, optimal generation scheduling procedures and capacity expansion planning. Since then he has continued to publish and consult with many of the world's major power companies on the topics of electricity re-structuring, strategic evolution, regulation, decarbonisation and market price modelling. He has acted as a special advisor to the House of Commons Select Committee on Energy and Climate Change, consultant to the UK Competition Commission on Electricity Market Abuse, Expert Advisor to the National Audit Office in their review of the electricity industry reforms, peer reviewer on modelling work for the Government and the energy regulator, and Expert Witness in several litigation cases before the High Court and at international Tribunals. He is currently chair of the UK Government's expert panel for capacity markets and an independent panel member of the Balancing and Settlements Code for power trading. He has also organised conferences and taught energy modelling courses to a variety of business and academic audiences worldwide.

At the London Business School, he has created, directed and raised continuing funds for the energy research programme since 1986. As head of the Decision Science subject area from 1984 - 2007, he had responsibility for its academic, research and administrative staff, created and directed the well-funded Decision Technology Centre, and managed a complete turnover of the faculty, facilitating its expansion against competing internal pressures. He has been chair of the Examinations Board for three terms, served on Management Board and has chaired many committees including several delicate ad hoc cases concerning faculty and student abuse. Most recently, he was instrumental in initiating the new business analytics degree programme.

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<sup>1</sup> Citation counts (January 2022): Google Scholar 11,366

## **DEREK W. BUNN**

*Professor of Decision Science, London Business School*

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### **DEGREES**

BA. (1971), MA (1975) Trinity College, Cambridge University (Natural Sciences).  
MA. (1978) Worcester College, Oxford University (by incorporation)  
MSc. & DIC (1972) Imperial College, London University (Management Science)  
PhD (1975) London Business School, London University

### **ACADEMIC APPOINTMENTS**

1972-1977 Research Fellow/Senior Research Fellow, London Business School  
1978-1984 CEGB Senior Research Fellow in Engineering Science &  
Fellow of Worcester College, Oxford University  
1984- Lecturer / Senior Lecturer /Associate Professor / Professor (1990-)  
Decision Sciences, London Business School

### **VISITING ACADEMIC APPOINTMENTS**

1975-1976 Visiting Research Scientist in Systems & Decision Sciences  
International Institute for Applied Systems Analysis, Vienna  
1977-1978 Visiting Assistant Professor of Decision Sciences,  
University of Southern California, Los Angeles  
1981-1982 Visiting Associate Professor of Decision Sciences,  
Graduate School of Business, Stanford University  
1988 & 1989 Visiting Professor of Decision Sciences,  
Graduate School of Business, Stanford University  
2007- Visiting Professor (honorary), Centre for Environmental Policy,  
Imperial College London  
2014 Visiting Professor, Centre for Geopolitics, Energy and Resources,  
Université Paris Dauphine

### **OFFICIAL ACADEMIC ACTIVITIES**

At London Business School:

Chair, Examinations Committee, and Chief Examiner (1998-2001; 2010-2014, 2021-). Chair, Decision Sciences Subject Area (1984-2006), Chair, Information Systems Policy Committee (1993-96). Chair, Management Science and Operations Subject Area (2017-18)

University of London Senate (1998-2001); Management Board (1989-2006, 2017-18), Appointments Committee (1990-), Doctoral Committee (1986-1991), MBA Committee (1991-1992), Examinations Boards (1996-2006;2010-);Appeals Committees (2002, 2004), Tenure Review Committees (2003, 2005), Accounting Subject Area Review Committee (2006), RAE Committee (2006-2007). GEMBA Review (2010), Research Awards (2018-19), Research Ethics (2029-20) plus chair and member of many faculty performance and several disciplinary review committees.

Member of the Governing Body of Worcester College, Oxford University (1978-1984).

### **EDITORIAL ACTIVITIES**

Chief Editor: *Journal of Forecasting* (1985-)  
Reconstituted editorial board 1985  
Edited Three Special Issues: 1985, 1989, 1995  
*Energy Economics* (1995-2003)  
Reconstituted editorial board 1995  
Edited Two Special Issues: 1997, 2005  
Honorary Editor (2004 -2006)  
*Journal of Energy Markets* (2007-)  
Founding Editor

## **EDITORIAL ACTIVITIES**

Associate Editor & Editorial Boards *Management Science* (1990-1998);  
*Production and Operations Management* (1989-2005)  
*European Journal of Operational Research* (1985-2010)  
Editor of Special Issue on Decision Technology, 1995  
*International Transactions in Operational Research* (1994-2015)  
Guest Editor of Special Issue on Energy, 1996  
*Journal of Behavioural Decision Making* (1987-2001)  
*Journal of Multicriteria Decision Making* (1990-97)  
*Interfaces* (1983-86);  
*Neural Computing & Applications* (1993-99)  
*Global Risk Assessment* (1983-86);  
*Risk, Decision and Policy* (1995-2003)  
*Pesquisa Operacional* [Brasil] (1996-);  
*OPSEARCH* [India] (2000-)  
*Operations Research and Decisions* [Poland] (2010-)  
*Economics of Energy & Environmental Policy* (2011-2013)  
*Euro Journal on Decision Processes* (2012-)  
*Energy Policy* (2014- ).  
*OPEC Energy Review* (2015-)  
Consulting Editor: Management Science Series, Wiley (1988-2002).

## **EXTERNAL ACADEMIC ACTIVITIES**

External examiner to the Universities of Cambridge, Edinburgh, Lancaster, Manchester, Warwick, Amsterdam, Helsinki, Copenhagen, Bergen, Singapore, Cape Town, UNSW, Lausanne, Bologna, Lecce, Dresden, Erasmus, Brunel, Birmingham, Comillas (Madrid), Montpellier, Paris, Queensland, Wroclaw, Vienna, Hull and Kent, plus LSE, IC, QMC, UCL, Birkbeck, CASS in London. University of London Committee of the Boards of Studies in Statistics and Economics. Academic Council of Instituto para el Desarrollo Empresarial de la Argentina. Expert Advisory Panel for UK Energy Research Centre. Accreditation Panel for Kristiana University MSc in FinTech, NTNU Quinquennial MIB programme review. Numerous professorial and tenure panels.

## **PROFESSIONAL ACTIVITIES**

*The Institute for Operations Research & Management Science [INFORMS]*

Elected International Representative to TIMS Council, 1992-1994; Member of the Merger Committee (with ORSA) for the formation of INFORMS (1993-1994), International Committee Chair, 1993-94, TIMS XXXII Anchorage 1994 Programme Committee; Cluster Chair, Detroit 1994 TIMS/ORSA, Student Award Judge, Seattle, 2007.

*Operational Research Society:*

Blackett Memorial Lecture, 1993; Goodeve Medal, 1994. International Committee, 1993-94.

*British Institute of Energy Economics:*

Council Member 2009-2013; Director, Trustee and Treasurer 2009-2013

*International Federation of Operational Research Societies*

Chair and organiser of the 1995 Symposium on Energy Models for Policy and Planning held at LBS; co-ordinator of the energy stream at IFORS triennial meeting, Vancouver 1996

*Other Conference Programme Committees,*

Neural Networks in the Capital Markets, annual conferences 1993 & 1995 (London), 1994 & 1996 (Pasadena). International Symposium in Forecasting, 1998 Edinburgh Symposium., EnergyMart, Amsterdam 2000, IAEE Zurich, 2004; Electricity Markets 2005, 2006, 2007 (Doctoral Competition Judge), 2008. EURO Conference on OR Models and Methods in the Energy Sector, Portugal 2006. 4th European Congress on Economics and Management of Energy, Porto 2007. London Energy Forum, 2007-2012 (Programme Chair). Renewable Energy Awards Panel at REFF-London 2009, 2011; ATES 2010, 2011; EEM 2011,2012. IAEE 2016 Norway, Energy Finance IPAG Paris 2014-2017; Global OR/OM for Sustainability Barcelona 2015, Beijing 2017; Commodities and Energy Finance Oxford.2017. Paris, 2018, Pittsburg, 2019; Madrid 2020; Chicago 2022..

*Research Networks:*

Co-ordinator of the European Latin American Energy Research Forum sponsored by the EC, Colciencias (Colombia) and CNPQ (Brasil), 1995-98; Member of the Stanford Energy Modelling Forum, 1995-2000. IEEE Committee on Computational Finance and Economics (2008). UK Energy Research Centre (2011-2012).

## TEACHING

Redesigned and delivered numerous degree core courses in statistics and decision models. Teaching evaluations have been consistently well-received at LBS and elsewhere (Dean's commendation for teaching at Stanford Business School, 1981; voted most impressive lecturer by LBS students, 1990). Extensive development of lecture materials, cases, computer workshops, videos and supporting tutorials. Electives in Energy Markets, Decision Technology, Time-series Analysis and Forecasting, Carbon Finance. Doctoral courses in multivariate statistics, time-series analysis, decision theory and quantitative research methodology. Developed and directed short executive courses in Decision Technology, Energy Markets, Carbon Finance and Forecasting.

Seminars and courses to various companies in several countries, e.g. Sandoz (Switzerland), Unilever (UK), Fisons (UK, Bangkok), SNS, SwedenPost, Ministry of Finance and Scandinaviska Enskilda Banken (Stockholm), ISA & Ministry of Energy (Colombia), Edelsur (Argentina), National Power (UK), NERC (Ukraine), McKinsey (New York), Wood-McKenzie (Edinburgh), Enel (Rome), Slovenske Elektrarne (Bratislava, x2), E.ON (Germany, x5), Eskom (SA), EdF (France, x3), GdF (France), KEPRI (S.Korea), GdFSuez (UK), Endesa (Spain), RWE (UK), Eirgrid (Ireland), OXARA (London), FCO (Ljubljana), Moody's (London), as well as research agencies NCAER (India), Riso (Denmark), FEEM (Italy), ECN (Netherlands), EPRI (USA).

Various external short term teaching engagements have included:

1986 & 1987	Faculty Co-ordinator in Decision Support Systems, International Teachers in Management Programme (ITP). Ecole des Hautes Etudes Commerciales (HEC), Paris.
1987	Visiting Professor, SDA Bocconi, Milano,
1990-93	Stockholm School of Economics/Swedish Institute of Management, (senior executive progs)
1990	PUC, Rio de Janeiro
1990-92	Decision Systems International: forecasting short courses, given in Monaco and Vienna.
1991-95	Mentor for decision sciences at Budapest University of Economic Sciences
1994	Cyprus Institute of Management, Nicosia;
1994-95	International Center for Monetary and Banking Studies, Geneva
1994-99	Oxford College of Petroleum and Energy Studies (annual oil markets course at Oxford; also company specific versions at Gubkin Academy [Moscow], Vilnius, Almaty, and Edinburgh)
1998-99	Instituto para el Desarrollo Empresarial de la Argentina, Buenos Aires
2005	Dept Economics, National Chengchi University, Taiwan (Herbert Simon Lecture Series).
2009-2012	Erasmus, Rotterdam Energy Finance advanced course
2011	NTNU, Norway: energy markets advanced course

## RESEARCH

Within the past 10years, awards have included, £400,000 from the ESRC, 2008-2010, for Climate Policy Risk and Electricity Investment, £120,000 from UKERC (2011-12) for Optionality in Future Energy Policy and £220,000 from the EC (2012-2014) to support a post doc fellowship. Partner with NTNU in £1.4M energy markets risk project from Norwegian Research Council (2010-2013), with 11 other EU organisations in a €2.9M EC funded programme (2013-2016) for district-level energy efficient infrastructure modelling, together with a further €4.7M (2015-2018) from the EC for a follow-up project on the same topic, and with 4 new enterprises in a £0.75M project funded by InnovateUK looking at digital energy communities (2017-18). Most recently the pilot EPSRC (2017) "System Transition to Digital Energy" award was followed by a larger (£900,000) consortium award on "Digital Aggregators in Local Energy Markets" EPSRC (2018-21).

Previous grants from various government, university and private funds including the Royal Society of London, Science & Engineering Research Council, Foundation for Management Education Economic and Social Research Council, Department of Trade and Industry, British Council, Overseas Development Agency, European Commission.. Initiated the Energy Markets Group at LBS in 1986 and the Decision Technology Centre in 1995, with total research funding exceeding £3m.

Contracted energy research has included work with the U.K. Central Electricity Generating Board, National Power, Southern Electric, Electric Power Research Institute (California), Environmental Resources Ltd, World Energy Council, World Bank, Ministries of Energy of Colombia, Denmark, Netherlands, Kazakhstan, St Clements Services, Energy Intensive Users Group, UK Competition Commission, Scottish Power, Eastern Group, London Electricity, National Grid Company, National Audit Office, BP, GdF, Los Alamos National Laboratory, E.ON, RWE, KEPRI, EFT, IEA, Suez, Vector (NZ), Ontario ISO, BG-Group, OXARA, Point Carbon, EBRD, ENEL, Quarry Battery, Cez, Ofgem, DECC, DEFRA, Baringa, Poyry, Vector (NZ), PG&E, SDG&E, Ernst & Young, Equinor and Centrica. In addition, more general business forecasting projects have been undertaken for Dell, Volvo, BHS, Unilever, Fisons, Tubelines Ltd, BT, SwedenPost, TNT, Royal Mail.

## **PUBLIC & PROFESSIONAL ADVISORY**

California Public Utilities Commission, PG&E and SDG&E (2018-20) Independent Assessor  
Chair Panel of Technical Experts for Electricity Capacity Markets, UK Government (2017-)  
Independent member of the Balancing and Settlements Code Panel for the British electricity market (2015-).  
Special Advisor to House of Commons Select Committee on Energy and Climate Change 2012  
Academic Advisor to the Ofgem Annual Capacity Assessment (2012, 2013, 2014)  
OFFER/OFGEM/DECC/BEIS on numerous electricity market matters, regularly, 1993-  
Evidence to House of Commons Select Committee on Energy Regulation, 1997, 99; [Hansard 31.1.00]  
Competition Commission, on electricity market abuse, 2000  
National Audit Office, Expert Advisor, on electricity market reforms, 2002  
Board of Actuarial Standards, Expert Advisor, 2007

*Expert Witness for High Court Litigations and international Tribunals: instructions from*  
Eversheds, Lovells, PinsentMasons, Maclay Murray & Spence, IEF, Weil, and Burges Salmon.

## **PHD SUPERVISIONS**

1984, N. Paschentis "Stochastic Linear Programming Application to the Economic Dispatching of Electricity"  
1990, K. Vlahos "Capacity Planning in the Electricity Supply Industry"  
1992, L. Menezes "Diagnostic Tracking and Model Management in Combining Forecasts"  
1994, A. Vassilopoulos "Multi-item Short-term Seasonal Forecasting"  
1994, P. Ninios "An Object Oriented/DEVS Framework for Strategic Modelling and Industry Simulation"  
1995, A. Ku "Modelling Uncertainty in Electricity Capacity Planning" University of London (Economics)  
1996, J. Taylor "Predictive Distributions, Quantile regression and the Combination of Forecasts"  
1996, I. Dynner "System Dynamics Platforms for Integrated Energy Analysis"  
1998, S. Pandelidaki "Multifunctional Sales Response with the Diagnostic Aid of Neural Networks"  
1999, C. Day "A Computational approach to Modelling Strategic Behaviour in Electric Power Pools"  
2000, J. Bower "Agent-based Analysis of the sources of Market Power in Deregulated Electricity Markets"  
2003 Fernando Oliveira "Simulation of Electricity Markets using Agent Based Computational Learning"  
2004 Jens Weinmann "Patterns of Institutional Change in the Latin American Electricity Sector"  
2005 Augusto Ruperez Micola "Interrelationship Models in Energy Markets"  
2005 Nektaria Karakatsani "Modelling the Structural Properties of High Frequency Electricity Prices"  
2006 Maria Martocchia, "Market Power and Transmission Networks"  
2009 Dipeng Chen "Structural Finite Mixture and Regime-Switching Models for Electricity Price Risk"  
2012 Veli Koc "Strategic Interactions in Spot and Forward Electricity Trading"  
2013 Celine McInerney "Investment Incentives in Power System Infrastructure"  
2016 Heikki Peura "Strategic Considerations in Risk Management and Sustainability"  
2018 Ezgi Avci "Surveillance of Complex Auction Markets"  
2019 Stefan Kermer "Imbalance Settlement and Statistical Arbitrage"  
Supervised over 50 visiting PhDs at LBS, including from Erasmus, Bologna, Padua, Dresden, Trondheim, Lecce, Bergen, Madrid, Cork, Tokyo, Tianjin, Beijing, Vienna, Helsinki, Imperial and elsewhere. Academic PhD Placements include Harvard, Berkeley, LSE, Oxford (x2), IMD, Imperial, Manchester, Warwick (x2), EUI.

## **AWARDS FOR PUBLICATIONS**

Goodeve Medal for the best paper in *Journal of Operational Research Society*, 1994,  
Best Paper in Energy, INFORMS, Montreal Meeting, 1998  
EURO Finalist for Best European Applied Paper in Operational Research, 2000  
Innovation Award for Research on Economics and Trading, PowerGeneration 2000, Helsinki  
Anbar Golden Page Award for editing the Journal of Forecasting (2000)  
Prix Academique SYNTEC Conseil en Management 2010 : Categorie Operations, Gestion, Controle/Systeme d'information et Technologies", for a paper published in *Operations Research*, 2008.  
European Energy Exchange Excellence Award 2017,  
Best Paper, Commodity and Energy Markets Annual Meeting, 2019  
Runner-Up, best paper on green energy, Assoc for Information Systems 2019  
(for supervisee, J. Bower) Best Student Paper Award, US Association for Energy Economics, 2000  
(for supervisee, A. Ruperez Micola) Best Paper, European Doctoral Research Conference, 2005  
(for supervisee, A. Ruperez Micola) Hans-Jürgen Ewers Prize for PhD Dissertation, DIW, Berlin 2005  
(for supervisee, A. Ruperez Micola) INFORMS ENRE Section first place student paper award, 2006  
(for supervisee, Carlo Fezzi) Best PhD Paper Prize, European Electricity Research 2006, Warsaw  
(for supervisee, Carlo Fezzi) Best PhD Paper Prize, European Electricity Research 2007, Warsaw  
(for supervisee, Janne Kettunen) Best PhD Paper Finalist, US Association for Energy Economics, 2008.

## **KEYNOTE AND PLENARY PRESENTATIONS (Selected from 2017 onwards)**

European Energy Markets 2017 Dresden (keynote)  
Energy Portfolio Optimization and Price Forecasting Forum 2017 Dusseldorf (Plenary)  
Young Finance Scholars Conference, Sussex University 2017 (Keynote)  
Digital Energy Transition, Cranfield 2017 (Plenary)  
Energy Finance Workshop, Krakow, 2017 (Plenary)  
European Electricity Ancillary Services and Balancing Forum, Berlin 2017 (Plenary)  
Cross Border Trade and Electricity Balancing Forum, Prague 2018 (Plenary)  
EdF Annual Portfolio and Risk Management for Energy Markets, Paris 2018 (Plenary)  
6<sup>th</sup> Portfolio and Risk Management for Energy Markets. Berlin 2019 (Plenary)  
7th Grid Integration & Electricity Ancillary Services. 2019 Amsterdam (Plenary)  
Energy Finance 2019, Dublin (Plenary)  
Mathematics of Energy Systems, Isaac Newton Institute Cambridge 2019 (by invitation only)  
Commodity and Energy Markets Annual Meeting, Carnegie Mellon, 2019  
International Conference on Computational Finance, A Coruna, 2019  
Quantitative Modelling in Commodity Markets. London 2019 (Plenary)  
AIEE Energy Symposium on Energy Security 2019, Rome (Keynote)  
Dublin Power Summit 2020 (Keynote)  
Integration of Renewable Energy in Energy, Asian Development Bank, Tokyo 2020 (virtual)  
European Energy Markets 2020 Stockholm (keynote, virtual)  
Energy Trading Risk Summit London 2020 (virtual)  
Electricity Markets in Transition, Asian Development Bank, Tokyo 2020 (virtual)  
AIEE Energy Symposium on Energy Security 2020, Rome (Virtual Plenary)  
ICFEE Tokyo 2021 (virtual Keynote)  
Cross-Border Energy Trading & Balancing (virtual plenary, 2021)  
Cyprus Institute of Marketing, Nicosia, 2022 (invited plenary)

In previous years, presentations at INFORMS, IAEE, ISF, EURO, and occasional presentations at EARIE, EEA, IEEE, EC<sup>2</sup>, Academy of Management, and other professional society meetings. Various invited seminars at university departments, incl Harvard, Wharton, Princeton, Berkeley, AGSM, Oxford, Cambridge, Erasmus, Stockholm, Helsinki, Bocconi, and many others in N & S America, Europe and SE Asia. Regular invited presenter at many industry conventions plus special talks for individual companies and research agencies.

## **MEDIA**

Includes Financial Times, Wall Street Journal, The Independent, The Economist, The Guardian, The Observer, Forbes, International Management, Il Giornale, Dallas Morning News, Suddeutsche Zeitung, The Wall Street Journal Americas, Reuters, Dow-Jones, PowerUK, Utilities Weekly, Utility Europe, European Power Weekly, Chora, Financial Box (Greece), Energetika (Slovenia) and others. Radio for BBC (currently archived at Spoken Word), televised for Bloomberg news, weblectures for FT and Platts

## **PUBLICATIONS**

### ***Books, Monographs and Edited Volumes***

1. Case Studies in Decision Analysis, Penguin, Harmondsworth, 1976.  
(with P.G. Moore, H. Thomas, and J.M. Hampton).
  2. Formal Methods in Policy Formulation, Birkhauser-Verlag, Basel, 1978.
  3. The Synthesis of Forecasting Models in Decision Analysis, Birhauser-Verlag, Basel, 1978.
  4. Analysis for Optimal Decisions, John Wiley & Sons, 1982
  5. Applied Decision Analysis, McGraw-Hill, New York, 1984
  6. Comparative Models for Electric Load Forecasting, J. Wiley & Sons, 1985 (edited with E.D.Farmer). (Russian translation, ENERGOIZDAT, 1988)
  7. Systems Modelling for Energy Policy (edited with E. Larsen) Wiley 1997
  8. Strategic Price Risk in Wholesale Power Markets, RISK Publications 1999
  9. Modelling Prices in Competitive Electricity Markets, Wiley, 2004 (Chinese Translation, 2006)
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## PUBLICATIONS

### *Research Papers*

- 209 Renewable Power and Electricity Prices: The Impact of Forward Markets (with H. Peura) **Management Science** 2021. (Best Paper, Commodity and Energy Markets Annual Meeting, 2019)
- 210 Observations on Risk Transmission Across Supply Chains. **Production and Operations Management**, 2021
- 211 Optimal Transmission Investment with Regulated Incentives based upon Forward Considerations of Firm and Intermittent Resources with Batteries, (with Dina Khastieva, Mohammad Reza Hesamzadeh and Saeed Mohammadi) **IEEE Transactions on Power Systems**. Vol. 36, No. 5, pp. 4420 - 4434, September 2021
- 212 Pricing Electricity Day-ahead Cap Futures with Multifactor Skew-t Densities (with Takuji Matsumoto and Yuji Yamada). **Quantitative Finance**, 2021
- 213 Optimal Daily Trading of Battery Operations using Arbitrage Spreads (with E. Abramova) **Energies** 2021
- 214 Comparative evaluation and policy analysis for recycling retired EV batteries with different collection modes (with Qi Zhang, Yanyan Tang, Hailong Li and Yaoming Li) **Applied Energy** 2021 Volume 303, <https://doi.org/10.1016/j.apenergy.2021.117614>
- 215 Using Cross-Impact Analysis for Probabilistic Risk Assessment (with A. Salo, E Tosoni and J. Roponen). **Futures & Foresight Science** 2021
- 216 Mitigation of the Inefficiency in Imbalance Settlement Designs using Day-Ahead Prices. (with Takuji Matsumoto and Yuji Yamada) **IEEE Transactions on Power Systems** 2022
- 217 Market Making and Electricity Price Formation in Japan. (with Takashi Kanamura) **Energy Economics** 2022
- 218 Distribution Locational Marginal Pricing (DLMP) for Unbalanced Three-Phase Networks. (with Saeed Mohammadi and Mohammad Reza Hesamzadeh) **IEEE Transactions on Power Systems**, 2022
- 219 Optimal Analysis for Facility Configuration and Energy Management on Electric Light Commercial Vehicle Charging. (with Y. Tang, Qi Zhang, Z. Wen and J.N.Martin) **Energy** Vol 246 2022 <https://doi.org/10.1016/j.energy.2022.123363>
- 220 Bayesian Estimation of Electricity Price Risk with a Multi-factor Mixture of Densities. (with Li Kang, Stephen Walker and Paul Damien) **Quantitative Finance** 2022
- 221 Bayesian Predictive Distributions for Imbalance Prices with Time-varying Factor Impacts (with L. Lima and Paul Damien) **IEEE Transactions on Power Systems**, 2022

## PUBLICATIONS

### *Research Papers*

- 193 A Stochastic Latent Moment Model for Electricity Price Formation. (with A Gianfreda) **Operations Research**, Vol 66 (5) 2018. European Energy Exchange Excellence Award 2017
- 194 Design of Local Services Markets for Pricing DSO-TSO Procurement Co-ordination. (with A.V. Pastor, J.N. Martin and L. Varga) **Proc IEEE PESGM** 2018
- 195 Enabling Automated Transparency for the Market Participation of ESCOs with Blockchain. (with J.N. Martin) **Proc IEEE PESGM** 2018
- 196 Analysis of Coal Conversion to Biomass as a Transitional Technology. (with J. Redondo, P. Diaz, J Munoz) **Renewable Energy**, 2018
- 197 A Trading-based Evaluation of Density Forecasts in a Real-time Electricity Market. (with A. Gianfreda and S. Kermer) **Energies**, 2018
- 198 Optimal Procurement of Flexibility Services within Electricity Distribution Networks. (with J.N. Martin, A. Laur and A. Vicente-Pastor) **European Journal of Operational Research**, 2019
- 199 Evaluation of Flexibility Markets for Retailer-DSO-TSO Coordination, (with A.V. Pastor, J.N. Martin and L. Varga) **IEEE Transactions on Power Systems**. 2019.
- 200 Expansion of Investor Base for the Energy Transition. (with C. McNerney) **Energy Policy** 2019
- 201 The Impact of Renewable Energy Forecast Errors on Imbalance Volumes and Electricity Spot Prices. (with S Goodarzi and N. Perera) **Energy Policy** 2019.
- 202 Agent-level determinants of price expectation formation in online double-sided auctions. (with E. Avci, W. Ketter and E. van Heck). **Decision Support Systems**. 2019 (Runner-Up, best paper on green energy, Assoc for Information Systems 2019)
- 203 The Emergence of Smart and Flexible Distribution Systems (with J.N. Martin) in Hesamzadeh, M., et al, **Transmission Network Investment in Liberalized Power Markets**, Springer Berlin, 2020
- 204 The Impact of Generator Market Power on the Electricity Hedge Market (with Mohammad Reza Hesamzadeh, Ekaterina Moiseeva and Darryl Biggar) **Energy Economics** 2020
- 202 Forecasting the Intra-day Spread Densities of Electricity Prices (with E. Abramova) **Energies** 2020
- 203 Analysis of the Fundamental Predictability of Prices in the British Balancing Market (with J. Inekwe) **IEEE Transactions on Power Systems** 2020
- 204 The Variation in Capacity Remunerations Requirements in European Electricity Markets (with Conor Hickey, Paul Deane, Celine McNerney & Brian Ó Gallachóir) **Energy Journal** 2020
- 205 Short-Term Electricity Price Forecasting with Recurrent Regimes and Structural Breaks (with : Rodrigo de Marcos, Antonio Bello and Javier Reneses) **Energies** 2020
- 206 Optimal Dispatch in a Balancing Market with Intermittent Renewable Generation (with P. Shinde, P. Date and M. Hesamzadeh) **IEEE Transactions on Power Systems** Vol. 36, No. 2, pp. 865 - 878, March 2021.
- 207 Statistical Arbitrage and Information Flow in an Electricity Balancing Market (with S. Kermer) **Energy Journal** 2021
- 208 Renewable Electricity Technologies and Forward Market Risks (with D. Koolen and W. Ketter) **Energy Journal** 2021.

## PUBLICATIONS

### *Research Papers*

- 176 Dynamic Pricing of Peak Production (with H Peura) **Operations Research** 2015
- 177 Measuring the Carbon Delta in Financial Performance (with C. McInerney) in Donovan, C. (ed) *Renewable Energy Finance*. Imperial College Press. 2015. 2<sup>nd</sup> e 2019.
- 178 A stakeholder analysis of divergent supply-chain trends for the European onshore and offshore wind installations (with R.. Madlener and C. Wuerstmeyer ). **Energy Policy**. 2015
- 179 Supporting the Externality of Intermittency in Policies for Renewable Energy (with J. Munoz) **Energy Policy**, 2015
- 180 The Progressive Inefficiency of Replacing Renewable Obligation Certificates with Contracts-for-Differences in the UK Electricity Market. (with T. Yusupov). **Energy Policy**. 2015
- 181 Resource Externalities and the Persistence of Heterogeneous Pricing Behaviour in an Energy Commodity Market. (with V. Koc and S. Sapio). **Energy Economics**. 2015
- 182 Systematic Analysis of the Evolution of Electricity and Carbon Markets under Deep Decarbonisation (with William Blyth , Michail Chronopoulos , Jose Munoz). **Journal of Energy Markets** 2016
- 183 Modelling the UK Electricity Price Distributions using Quantile Regression (with Lars Ivar Hagfors, Sjur Westgaard, Tiril T Staver; Kristoffersen Eline) **Energy** 2016
- 184 Optimal Over Installation of Wind Generation Facilities (with C. McInerney) **Energy Economics** 2016
- 185 Analysis and Forecasting of Electricity Price Risks with Quantile Factor Models (with A. Andresen, D. Chen and S. Westgaard). **The Energy Journal**. 2016
- 186 Real Options Valuation Applied to Dynamic Transmission Expansion Planning (with S. Lumberras, A. Ramos, M. Chronopoulos ) **Quantitative Finance** 2016
- 187 Dynamic Capacity Planning using Strategic Slack Valuation. (with F. Oliveira) **EJOR** 2016
- 188 Risk-Induced Resource Dependency in Capacity Investments (with J. Kettunen) **EJOR** 2016
- 189 Weather and Market Specificities in the Regional Transmission of Renewable Energy Price Effects. (with N Figueiredo and P. Pereira da Silva) **Energy** 2016
- 190 Parametric Density Recalibration of a Fundamental Market Model to Forecast Electricity Prices (with Antonio Bello, Javier Reneses, Antonio Munoz) **Energies** 2016
- 191 Medium-Term Probabilistic Forecasting of Electricity Prices: a Hybrid Approach. (with Antonio Bello, Javier Reneses, and Antonio Muñoz) **IEEE Trans. on Power Systems**. 2017
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