

## DR MANUEL LLORCA

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### CURRENT POSITIONS

- **Assistant Professor**, Department of Economics, Copenhagen Business School, Denmark (August 2023 - Present).
- **Researcher**, Copenhagen School of Energy Infrastructure (CSEI), Department of Economics, Copenhagen Business School, Denmark (November 2019 - Present).

### PREVIOUS POSTS

- **Postdoctoral Research Fellow**, Department of Economics, Copenhagen Business School, Denmark (November 2019 - July 2023).
- **Early Career Fellow**, Durham Energy Institute (DEI), Durham University, UK (September 2015 - July 2019).
- **Research Fellow**, Durham University Business School (DUBS), Durham University, UK (May 2015 - July 2019).
- **PhD Fellow**, financed by the Government of the Principality of Asturias, University of Oviedo, Spain (September 2011 - August 2014).
- **Associate Lecturer**, University of Oviedo, Spain (October 2010 - August 2011).
- **Research Assistant**, Department of Economics, University of Oviedo, Spain (October 2008 - September 2010).
- **Research Assistant**, Fundación Observatorio Económico del Deporte (Research Foundation in Sports Economics), University of Oviedo, Spain (July 2008 - September 2008).

## **OTHER AFFILIATIONS**

- **Researcher**, Oviedo Efficiency Group (OEG), Department of Economics, University of Oviedo, Spain.
- **Member**, Danish Association of Energy Economics (DAEE), Denmark.

## **EDUCATION**

- **PhD in Economics**, University of Oviedo, Spain (2015).
- **Master of Economic Analysis**, University of the Basque Country, University of Cantabria, and University of Oviedo, Spain (2008).
- **Bachelor of Economics**, University of Oviedo, Spain (2008).
- **Diploma in Business Science**, University of Oviedo, Spain (2005).

## **TEACHING EXPERIENCE**

- *Minor in Energy Economics and Policy* [coordinator] (master), Copenhagen Business School (2021 - Present).
  - *Energy Economics, Markets, and Policy* [coordinator] (2021 - Present).
  - *Energy System Economics and Modelling* (2021-2024).
- *Markets and Policies for a Sustainable Energy Sector* [coordinator] (undergraduate), Copenhagen Business School (2025 - Present).
- *Energy Economics and Policy* [coordinator] (summer course), Copenhagen Business School (2025 - Present).
- *Advanced Topics in Energy and Environment: Sustainable Development and Policy* [coordinator] (master), Copenhagen Business School (2021-2024).
- *Sustainability and Policy Analysis: Environmental and Resource Economics* [coordinator] (undergraduate), Copenhagen Business School (2020-2021).
- *Sustainability and Business: Energy Markets, Competition, and Regulation* [coordinator] (undergraduate), Copenhagen Business School (2020-2021).
- *Introduction to Environmental Economics* (undergraduate), DUBS, Durham University (2016-2017).
- *Economic Analysis of Firms* (undergraduate), University of Oviedo (2013-2014).
- *Introduction to Macroeconomics* (undergraduate), University of Oviedo (2010-2011).

- *Introduction to Microeconomics* (undergraduate), University of Oviedo (2010-2011).
- *Introduction to Economics* (undergraduate), University of Oviedo (2010-2011).

### **VISITING SCHOLAR**

- Visiting researcher at China Electric Power Research Institute (CEPRI), Chinese Academy of Sciences, and Tsinghua University in Beijing, China (August 2018 - September 2018), through TESTBED project. Host: Naishi Chen (CEPRI).
- Visiting scholar at the Faculty of Economics of the University of Havana, Cuba (July 2018). This research visit was financed by the Centre for Environmental and Energy Economics at DUBS. Hosts: Professor José Somoza Cabrera and Professor Juan Llanes Regueiro.
- Visiting researcher at OTE (Hellenic Telecommunications Organisation S.A.) Research Labs in Athens, Greece (August 2017), through TESTBED project. Host: Doctor Tilemachos Doukoglou.
- Academic visitor at Energy Policy Research Group (EPRG), University of Cambridge, UK (January 2011 - March 2011, January 2014 - February 2014). Host: Professor Michael G. Pollitt.

### **PUBLICATIONS**

#### ***Articles in Peer-reviewed Journals***

- Most, H., Moner-Girona, M., Casati, P., **Llorca, M.**, Haselip, J. and Fumagalli, E. (2025), “Investigating the interplay between electricity access and food security: Insights from refugee settlements in Zambia, Malawi, and Uganda”, *Energy for Sustainable Development*, 85, 101658.
- **Llorca, M.** and Rodriguez-Alvarez, A. (2024), “Economic, environmental, and energy equity convergence: Evidence of a multi-speed Europe?”, *Ecological Economics*, 219, 108133.
- Asantewaa, A., Jamasb, T. and **Llorca, M.** (2023) “Electricity sector reforms and cost efficiency: The case of small electricity systems in sub-Sahara Africa”, *Economic Analysis and Policy*, 80, 880-893.
- Nyathikala, S.A., Jamasb, T., **Llorca, M.** and Kulshrestha, M. (2023), “Utility governance, incentives, and performance: Evidence from India’s urban water sector”, *Utilities Policy*, 82, 101534.
- Jamasb, T., **Llorca, M.**, Meeus, L. and Schittekatte, T. (2023), “Energy network innovation for green transition: Economic issues and regulatory options”, *Economics of Energy & Environmental Policy*, 12(1), 81-95.

- Amin, S., Jamasb, T., **Llorca, M.**, Marsiliani, L. and Renström, T.I. (2022), “Decarbonisation policies and energy price reforms in Bangladesh”, *Energy Policy*, 170, 113224.
- Asantewaa, A., Jamasb, T. and **Llorca, M.** (2022), “Electricity sector reform performance in sub-Saharan Africa: A parametric distance function approach”, *Energies*, 15(6), 2047.
- Tobiasson, W., **Llorca, M.** and Jamasb, T. (2021), “Performance effects of network structure and ownership: The Norwegian electricity distribution sector”, *Energies*, 14(21), 7160.
- Rodriguez-Alvarez, A., **Llorca, M.** and Jamasb, T. (2021), “Alleviating energy poverty in Europe: Front-runners and laggards”, *Energy Economics*, 103, 105575.
- Amin, S., Jamasb, T., **Llorca, M.**, Marsiliani, L., Renström, T.I. and Sarkar, A. (2021), “Captive power, market access and macroeconomic performance: Reforming the Bangladesh electricity sector”, *Energy Economics*, 102, 105468.
- Amin, S., Jamasb, T., **Llorca, M.**, Marsiliani, L. and Renström, T.I. (2021), “Combining private and public resources: Captive power plants and electricity sector development in Bangladesh”, *Emerging Markets Finance and Trade*, 57(14), 3891-3912.
- Schittekatte, T., Pototschnig, A., Meeus, L., Jamasb, T. and **Llorca, M.** (2021), “Making the TEN-E regulation compatible with the Green Deal: Eligibility, selection, and cost allocation for PCIs”, *Energy Policy*, 156, 112426.
- Schittekatte, T., Meeus, L., Jamasb, T. and **Llorca, M.** (2021), “Regulatory experimentation in energy: Three pioneer countries and lessons for the green transition”, *Energy Policy*, 156, 112382.
- Jamasb, T., **Llorca, M.**, Khetrpal, P. and Thakur, T. (2021), “Institutions and performance of regulated firms: Evidence from electricity distribution in India”, *Economic Analysis and Policy*, 70, 68-82.
- Soroush, G., Cambini, C., Jamasb, T. and **Llorca, M.** (2021), “Network utilities performance and institutional quality: Evidence from the Italian electricity sector”, *Energy Economics*, 96, 105177.
- Cambini, C., Congiu, R., Jamasb, T., **Llorca, M.** and Soroush, G. (2020), “Energy systems integration: Implications for public policy”, *Energy Policy*, 143, 111609.
- **Llorca, M.**, Rodriguez-Alvarez, A. and Jamasb, T. (2020), “Objective vs. subjective fuel poverty and self-assessed health”, *Energy Economics*, 87, 104736.
- Jamasb, T. and **Llorca, M.** (2019), “Energy systems integration: Economics of a new paradigm”, *Economics of Energy & Environmental Policy*, 8(2), 7-28.

- Imam, M.I., Jamasb, T. and **Llorca, M.** (2019), “Sector reforms and institutional corruption: Evidence from electricity industry in sub-Saharan Africa”, *Energy Policy*, 129, 532-545.
- **Llorca, M.** and Jamasb, T. (2017), “Energy efficiency and rebound effect in European road freight transport”, *Transportation Research Part A: Policy and Practice*, 101, 98-110.
- **Llorca, M.**, Baños, J., Somoza, J. and Arbués, P. (2017), “A stochastic frontier analysis approach for estimating energy demand and efficiency in the transport sector of Latin America and the Caribbean”, *The Energy Journal*, 38(5), 153-174.
- **Llorca, M.**, Orea, L. and Pollitt, M.G. (2016), “Efficiency and environmental factors in the US electricity transmission industry”, *Energy Economics*, 55, 234-246.
- Orea, L., **Llorca, M.** and Filippini, M. (2015), “A new approach to measuring the rebound effect associated to energy efficiency improvements: An application to the US residential energy demand”, *Energy Economics*, 49, 599-609.
- **Llorca, M.**, Orea, L. and Pollitt, M.G. (2014), “Using the latent class approach to cluster firms in benchmarking: An application to the US electricity transmission industry”, *Operations Research Perspectives*, 1(1), 6-17.
- Aza, R., Baños, J., González Arbués, P. and **Llorca, M.** (2011), “La demanda de transporte de mercancías por carretera en España: Un modelo de datos de panel”, *Estudios de Construcción y Transportes*, 115, 31-48.

### **Book Chapters**

- **Llorca, M.**, Soroush, G., Giovannetti, E., Jamasb, T. and Davi-Arderius, D. (2024), “Digitalisation and economic regulation in the energy sector”, Part II, in Meeus, L., Jamasb, T. and Smidt, C. (eds.), *Vol. 2: Incentives and Digitalization for Flexibility in the Green Transition*, pp. 17-27, Danish Utility Regulator’s Anthology Project Series on Better Regulation in the Energy Sector, Forsyningstilsynet, Frederiksværk.
- Amin, S., Jamasb, T., **Llorca, M.**, Marsiliani, L. and Renström, T. (2022), “The case of waste to energy in Bangladesh”, Chapter 8, in Arthur, L., Hondo, D., Hughes, M. and Kohonen, R. (eds.), *Prospects for Transitioning from a Linear to Circular Economy in Developing Asia*, pp. 127-144, Asian Development Bank Institute, Tokyo.
- Jamasb, T. and **Llorca, M.** (2021), “The rebound effect in road freight transport”, in Vickerman, R. (ed.), *International Encyclopedia of Transportation*, pp. 402-406, 1<sup>st</sup> edition, Elsevier, Amsterdam.
- Schittekatte, T., Meeus, L., Jamasb, T. and **Llorca, M.** (2021), “Regulatory experimentation in energy: Three pioneer countries and lessons for the green transition”, Chapter 6, in Olsen, B.E., Lund, H., Jamasb, T., Møllgaard, P. and

Smidt, C. (eds.), *Vol. 1: Energy Regulation in the Green Transition*, pp. 74-84, Danish Utility Regulator's Anthology Project Series on Better Regulation in the Energy Sector, Forsyningstilsynet, Copenhagen.

- Jamasb, T., **Llorca, M.**, Meeus, L. and Schittekatte, T. (2021), "Energy network innovation for green transition: Economic issues and regulatory options", Chapter 1, in Olsen, B.E., Lund, H., Jamasb, T., Møllgaard, P. and Smidt, C. (eds.), *Vol. 1: Energy Regulation in the Green Transition*, pp. 14-21, Danish Utility Regulator's Anthology Project Series on Better Regulation in the Energy Sector, Forsyningstilsynet, Copenhagen.

### **Working Papers**

- **Llorca, M.** and Rodriguez-Alvarez, A. (2025), *Is Spain's energy voucher lighting the way for the poor? A microeconomic evaluation of the Bono Social Eléctrico*, Efficiency Series Papers 01/2025, Oviedo Efficiency Group, University of Oviedo.
- **Llorca, M.** and Rodriguez-Alvarez, A. (2025), *Is Spain's energy voucher lighting the way for the poor? A microeconomic evaluation of the Bono Social Eléctrico*, EPRG Working Paper 2516, Cambridge Working Paper in Economics 2542, University of Cambridge.
- **Llorca, M.** and Rodriguez-Alvarez, A. (2025), *Is Spain's energy voucher lighting the way for the poor? A microeconomic evaluation of the Bono Social Eléctrico*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2025-03 / Department of Economics Working Paper 04-2025, Copenhagen Business School.
- Christiansen, A.G., **Llorca, M.**, Jamasb, T. and Zhao, T. (2024), *Energy network innovation in the EU: A tripartite evolutionary game approach*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2024-09 / Department of Economics Working Paper 11-2024, Copenhagen Business School.
- **Llorca, M.**, Soroush, G., Giovannetti, E., Jamasb, T. and Davi-Arderius, D. (2024), *Energy sector digitalisation, green transition and regulatory trade-offs*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2024-03 / Department of Economics Working Paper 05-2024, Copenhagen Business School.
- Pourkhanali, A., Kholghi, D., **Llorca, M.** and Jamasb, T. (2023), *Persistent and transient energy poverty: A multi-level analysis in Spain*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2023-10 / Department of Economics Working Paper 09-2023, Copenhagen Business School.
- **Llorca, M.** and Rodriguez-Alvarez, A. (2023), *Economic, environmental, and energy equity convergence: Evidence of a multi-speed Europe?*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2023-08 /

Department of Economics Working Paper 07-2023, Copenhagen Business School.

- **Llorca, M.** and Rodriguez-Alvarez, A. (2023), *Economic, environmental, and energy equity convergence: Evidence of a multi-speed Europe?*, Efficiency Series Papers 05/2023, Oviedo Efficiency Group, University of Oviedo.
- Pourkhanali, A., Kholghi, D., **Llorca, M.** and Jamasb, T. (2023), *Persistent and transient energy poverty: A multi-level analysis in Spain*, Available at SSRN: <http://dx.doi.org/10.2139/ssrn.4562154>.
- Asantewaa, A., Jamasb, T. and **Llorca, M.** (2022), *Reforming small electricity systems: Market design and competition*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2022-05 / Department of Economics Working Paper 12-2022, Copenhagen Business School.
- Rodriguez-Alvarez, A., **Llorca, M.** and Jamasb, T. (2021), *Alleviating energy poverty in Europe: Front-runners and laggards*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2021-04 / Department of Economics Working Paper 12-2021, Copenhagen Business School.
- Amin, S., Jamasb, T., **Llorca, M.**, Marsiliani, L. and Renström, T. (2021), *The role of captive power plants in the Bangladesh electricity sector*, ADBI Working Paper 1238, Tokyo: Asian Development Bank Institute.
- Asantewaa, A., Jamasb, T. and **Llorca, M.** (2021), *Electricity sector reform performance in sub-Saharan Africa: A parametric distance function approach*, Efficiency Series Papers 02/2021, Oviedo Efficiency Group, University of Oviedo.
- Schittekatte, T., Meeus, L., Jamasb, T. and **Llorca, M.** (2020), *Regulatory experimentation in energy: Three pioneer countries and lessons for the green transition*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2020-16 / Department of Economics Working Paper 19-2020, Copenhagen Business School.
- Jamasb, T., **Llorca, M.**, Meeus, L. and Schittekatte, T. (2020), *Energy network innovation for green transition: Economic issues and regulatory options*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2020-15 / Department of Economics Working Paper 18-2020, Copenhagen Business School.
- Asantewaa, A., Jamasb, T. and **Llorca, M.** (2020), *Electricity sector reform performance in sub-Saharan Africa: A parametric distance function approach*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2020-12 / Department of Economics Working Paper 14-2020, Copenhagen Business School.
- Amin, S., Jamasb, T., **Llorca, M.**, Marsiliani, L. and Renström, T. (2020), *Captive power, market access, and welfare effects in the Bangladesh electricity sector*,

Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2020-08 / Department of Economics Working Paper 08-2020, Copenhagen Business School.

- Imam, M.I., Jamasb, T. and **Llorca, M.** (2020), *Political economy of reform and regulation in the electricity sector of sub-Saharan Africa*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2020-05 / Department of Economics Working Paper 05-2020, Copenhagen Business School.
- Soroush, G., Cambini, C., Jamasb, T. and **Llorca, M.** (2020), *Network utilities performance and institutional quality: Evidence from the Italian electricity sector*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2020-04 / Department of Economics Working Paper 04-2020, Copenhagen Business School.
- Cambini, C., Congiu, R., Jamasb, T., **Llorca, M.** and Soroush, G. (2020), *Energy system integration: Implications for public policy*, Copenhagen School of Energy Infrastructure (CSEI), CSEI Working Paper 2020-02 / Department of Economics Working Paper 02-2020, Copenhagen Business School.
- Imam, M.I., Jamasb, T. and **Llorca, M.** (2019), *Political economy of reform and regulation in the electricity sector of sub-Saharan Africa*, EPRG Working Paper 1917, Cambridge Working Paper in Economics 1949, University of Cambridge.
- Soroush, G., Cambini, C., Jamasb, T. and **Llorca, M.** (2019), *Network utilities performance and institutional quality: Evidence from the Italian electricity sector*, Efficiency Series Papers 05/2019, Oviedo Efficiency Group, University of Oviedo.
- Soroush, G., Cambini, C., Jamasb, T. and **Llorca, M.** (2019), *Network utilities performance and institutional quality: Evidence from the Italian electricity sector*, EPRG Working Paper 1914, Cambridge Working Paper in Economics 1942, University of Cambridge.
- Jamasb, T. and **Llorca, M.** (2019), *Energy systems integration: Economics of a new paradigm*, EPRG Working Paper 1903, Cambridge Working Paper in Economics 1903, University of Cambridge.
- Nyathikala, S.A., Jamasb, T., **Llorca, M.** and Kulshrestha, M. (2018), *Utilities governance, incentives, and performance: Evidence from the water sector in India*, Efficiency Series Papers 04/2018, Oviedo Efficiency Group, University of Oviedo.
- Nyathikala, S.A., Jamasb, T., **Llorca, M.** and Kulshrestha, M. (2018), *Utilities governance, incentives, and performance: Evidence from the water sector in India*, EPRG Working Paper 1832, Cambridge Working Paper in Economics 1861, University of Cambridge.



- **Llorca, M.**, Rodriguez-Alvarez, A. and Jamasb, T. (2018), *Objective vs. subjective fuel poverty and self-assessed health*, EPRG Working Paper 1823, Cambridge Working Paper in Economics 1843, University of Cambridge.
- Jamasb, T., **Llorca, M.**, Khetrapal, P. and Thakur, T. (2018), *Institutions and performance of regulated firms: Evidence from electric utilities in the Indian states*, Efficiency Series Papers 03/2018, Oviedo Efficiency Group, University of Oviedo.
- Jamasb, T., **Llorca, M.**, Khetrapal, P. and Thakur, T. (2018), *Institutions and performance of regulated firms: Evidence from electric utilities in the Indian states*, EPRG Working Paper 1809, Cambridge Working Paper in Economics 1823, University of Cambridge.
- Imam, M.I., Jamasb, T. and **Llorca, M.** (2018), *Power sector reform and corruption: Evidence from sub-Saharan Africa*, MIT Center for Energy and Environmental Policy Research (CEEPR), WP-2018-006, March, Massachusetts Institute of Technology (MIT).
- Imam, M.I., Jamasb, T. and **Llorca, M.** (2018), *Power sector reform and corruption: Evidence from sub-Saharan Africa*, EPRG Working Paper 1801, Cambridge Working Paper in Economics 1801, University of Cambridge.
- **Llorca, M.** and Jamasb, T. (2016), *Energy efficiency and rebound effect in European road freight transport*, EPRG Working Paper 1622, Cambridge Working Paper in Economics 1654, University of Cambridge.
- **Llorca, M.** and Jamasb, T. (2016), *Energy efficiency and rebound effect in European road freight transport*, Efficiency Series Papers 03/2016, Oviedo Efficiency Group, University of Oviedo.
- **Llorca, M.**, Baños, J., Somoza, J. and Arbués, P. (2014), *A latent class approach for estimating energy demands and efficiency in transport: An application to Latin America and the Caribbean*, Efficiency Series Papers 04/2014, Oviedo Efficiency Group, University of Oviedo.
- Orea, L., **Llorca, M.** and Filippini, M. (2014), *Measuring energy efficiency and rebound effects using a stochastic demand frontier approach: The US residential energy demand*, Efficiency Series Papers 01/2014, Oviedo Efficiency Group, University of Oviedo.
- **Llorca, M.**, Orea, L. and Pollitt, M.G. (2013), *Efficiency and environmental factors in the US electricity transmission industry*, EPRG Working Paper 1310, Cambridge Working Paper in Economics 1318, University of Cambridge.
- **Llorca, M.**, Orea, L. and Pollitt, M.G. (2013), *Using the latent class approach as a supervised method to cluster firms in DEA: An application to the US electricity transmission industry*, Efficiency Series Papers 03/2013, Oviedo Efficiency Group, University of Oviedo.

- **Llorca, M.**, Orea, L. and Pollitt, M.G. (2013), *Efficiency and environmental factors in the US electricity transmission industry*, Efficiency Series Papers 02/2013, Oviedo Efficiency Group, University of Oviedo.

### ***Other Contributions - Conference Papers, Reports, and Responses to Consultations***

- Davi-Arderius, D., **Llorca, M.**, Soroush, G., Giovannetti, E. and Jamasb, T. (2024), *Economics of data interoperability in a data-driven energy sector*, IAEE Energy Forum, 117, 23-27. <https://www.iaee.org/newsletter/issue/117>.
- Karagiannis, V., Kashyap, S., Zechner, N., Hödl, O., Hartner, G., **Llorca, M.**, Jamasb, T., Grünberger, S., Kurz, M., Schaffer, C. and Schulte, S. (2023), *A framework for enabling cloud services to leverage energy data*, 2023 IEEE International Conference on Cloud Engineering (IC2E), Boston, MA, USA, 43-50, <https://doi.org/10.1109/ic2e59103.2023.00013>.
- Brandstätt, C., Göke, L., **Llorca, M.**, Lüth, A. and Weibezahn, J. (2023), *Methodology for integrated network planning in Europe*, Copenhagen School of Energy Infrastructure, <https://doi.org/10.5281/zenodo.8139903>.
- European Commission, Directorate-General for Energy (2021), *TYNDP 2020 joint scenarios methodology: A CSEI assessment*, Publications Office of the European Union, <https://data.europa.eu/doi/10.2833/872954>.
- Schittekatte, T., Pototschnig, A., Meeus, L., Jamasb, T. and **Llorca, M.** (2020), *Making the TEN-E regulation compatible with the Green Deal: Eligibility, selection, and cost allocation for PCIs*, Policy Brief, Issue 2020/27, July, Florence School of Regulation, Robert Schuman Centre for Advance Studies, European University Institute, <https://doi.org/10.2870/304592>.
- Hogg, S., Gluyas, J., Jamasb, T., Halliday, D., Abram, S., Connors, D., Spargo, C., Sun, H., **Llorca, M.** and Carvalho, R. (2017), *Impact of Brexit on the UK energy system – A statement from Durham Energy Institute*, Durham Energy Institute, Durham University. <https://www.dur.ac.uk/resources/dei/briefs/DEIstatementonimpactsofBrexitonUKEnergySystemFINAL.pdf>.

### **CONFERENCE PRESENTATIONS**

2024

- “Unravelling the impact of information sources on public acceptance of CCS”, *The Danish CCUS Summit 2024*, 11-12 June - Copenhagen, Denmark.

2022

- “Technical change analysis and technology learning curves: A nonparametric frontier approach”, *43<sup>rd</sup> IAEE International Conference, “Mapping the Energy Future -Voyage in Uncharted Territory-”*, 31 July - 4 August - Tokyo, Japan.

2020

- “The effect of institutions on performance of regulated firms in developing countries: Evidence from electricity distribution in India”, *Virtual Workshop on Reforming Asian Utilities: Institutional Reforms for Boosting Private Investments*, Asian Development Bank Institute, 18-19 November - Online.

2019

- “A novel approach to measure energy systems integration”, *16<sup>th</sup> European Workshop on Efficiency and Productivity Analysis*, 10-13 June - London, UK.

2017

- “Fuel poverty, health and subjective assessment: A latent class approach and application to the case of Spain”, *15<sup>th</sup> IAEE European Conference 2017, “Heading towards sustainable energy systems: Evolution or revolution?”*, 3-6 September - Vienna, Austria.
- “Fuel poverty, health and subjective assessment: A latent class approach and application to the case of Spain”, *15<sup>th</sup> European Workshop on Efficiency and Productivity Analysis*, 12-15 June - London, UK.

2016

- “Energy efficiency and rebound effect in European road freight transport”, *XIX Pan-American Conference of Traffic, Transportation Engineering and Logistics*, 28-30 September - Mexico City, Mexico.
- “Energy efficiency and rebound effect in European road freight transport”, *9<sup>th</sup> International Workshop on Empirical Methods in Energy Economics*, 7-8 July - Oviedo, Spain.

2015

- “A new approach to measuring the rebound effect associated to energy efficiency improvements: An application to the US residential energy demand”, *14<sup>th</sup> European Workshop on Efficiency and Productivity Analysis*, 15-18 June - Helsinki, Finland.

2014

- “Measuring the rebound effect using a stochastic demand frontier approach: The US residential energy demand”, *7<sup>th</sup> International Workshop on Empirical Methods in Energy Economics*, 14-15 August - Aachen, Germany.
- “La medición de la eficiencia energética en el sector del transporte en América Latina y el Caribe”, *XVIII Pan-American Conference of Traffic, Transportation Engineering and Logistics*, 11-13 June - Santander, Spain.
- “La medición de la eficiencia energética en el sector del transporte en América Latina y el Caribe”, *VI Congreso de Eficiencia y Productividad EFIUCO*, 26-28 May - Córdoba, Spain.

2013

- “Using the latent class approach as a supervised method to cluster firms in DEA: An application to the US electricity transmission sector”, *13<sup>th</sup> European Workshop on Efficiency and Productivity Analysis*, 17-20 June - Helsinki, Finland.

2012

- “Efficiency and unobserved heterogeneity in the US electricity transmission companies”, *5<sup>th</sup> International Workshop on Empirical Methods in Energy Economics*, 7-8 June - Berlin, Germany.

2010

- “Road freight transport demand in Spain: A panel data model”, *12<sup>th</sup> World Conference on Transport Research*, 11-15 July - Lisbon, Portugal.

2009

- “La demanda de transporte de mercancías por carretera en España (1999-2007)”, *Congreso de la Asociación Española de Ciencia Regional, XXXV Reunión de Estudios Regionales*, 26-27 November - Valencia, Spain.

### **PHD SUPERVISION**

- Adwoa Asantewaa, “Electricity sector reforms in sub-Saharan Africa”, Durham University (2022).
- Mahmud I. Imam, “Essays on energy reforms, regulation and institutions”, Durham University (2020).
- Wenche B. Tobiasson, “Sustainable electricity grid development: Essays on economic regulation, future challenges, and the resolution of social conflict”, Durham University (2019).

### **RESEARCH PROJECTS**

- Name: Integrated Network for data Space and Interoperable Energy Management in Europe (INSIEME).  
Funding: Digital Europe Programme (DIGITAL) Simple Grants (SIMPLE), European Commission.  
Period: April 2025 - March 2028.  
Principal Researcher: Oliver Hödl (University of Applied Sciences Upper Austria, Austria).  
Budget: €15,994,386 (total).
- Name: Consumer Demand Flexibility in electricity use (CoDeF).  
Funding: Horizon Europe (HORIZON) Marie Skłodowska-Curie Actions (MSCA) Doctoral Networks (DN), European Commission.  
Period: September 2024 - August 2028.  
Principal Researcher: Lisa Ryan (University College Dublin, Ireland).

Budget: €3,635,604 (total).

- Name: Innomission 1 - Carbon Capture, Utilisation and Storage (INNO-CCUS).  
Project 5-P1. Public acceptance of CCUS (PAoCCUS).  
Funding: Danmarks Innovationsfond (Innovation Fund Denmark).  
Period: January 2023 - December 2025.  
Principal Researcher: Manuel Llorca (Copenhagen Business School, Denmark).  
Budget: DKK5,119,999 (total).
- Name: European Distributed Data Infrastructure for Energy (EDDIE).  
Funding: Horizon Europe (HORIZON) Innovation Action (IA), European Commission.  
Period: January 2023 - June 2026.  
Principal Researcher: Oliver Hödl (University of Applied Sciences Upper Austria, Austria).  
Budget: €8,800,169 (total).
- Name: Delivering a decarbonised European energy sector: A methodology for implementing Smart and Efficient Energy System integration (STEERS).  
Funding: Connecting Europe Facility (CEF), Programme Support Action (PSA), European Commission.  
Period: January 2022 - June 2023.  
Principal Researcher: Tooraj Jamasb (Copenhagen Business School, Denmark).  
Budget: €150,000 (total).
- Name: TYNDP joint scenarios methodology analysis.  
Funding: Directorate-General for Energy (DG Ener), European Commission.  
Period: December 2020 - April 2021.  
Principal Researcher: Tooraj Jamasb (Copenhagen Business School, Denmark).  
Budget: €15,000 (total).
- Name: Testing and Evaluating Sophisticated information and communication Technologies for enabling a smarter grid (TESTBED).  
Funding: Horizon 2020 Marie Skłodowska-Curie Actions (MSCA) Research and Innovation Staff Exchange (RISE), European Commission.  
Period: January 2017 - December 2019.  
Principal Researcher: Hongjian Sun (Durham University, UK).  
Budget: €202,500 (EU contribution to Durham University).
- Name: Centre for Energy Systems Integration (CESI).  
Funding: Engineering and Physical Sciences Research Council (EPSRC), UK.  
Period: October 2016 - July 2022.  
Principal Researcher: Sara Walker (Newcastle University, UK).  
Budget: £5,359,128 (total from EPSRC).
- Name: Centre for Sustainable Road Freight Transport (CfSRFT).  
Funding: Engineering and Physical Sciences Research Council (EPSRC), UK.  
Period: December 2012 - May 2018.  
Principal Researcher: David Cebon (University of Cambridge, UK).  
Budget: £4,423,783 (total from EPSRC).

- Name: Potenciación de la competitividad del tejido empresarial español a través de la logística como factor estratégico en un entorno global (GLOBALOG). Subproyecto SP5-PSE GLOBALOG: Infraestructuras Logísticas: Evaluación de las Redes Atlántica-Mediterránea.  
Funding: Ministerio de Ciencia e Innovación (Spanish Ministry of Science and Innovation).  
Period: April 2009 - June 2011.  
Principal Researchers: Rosa Aza and José Baños (University of Oviedo, Spain).  
Budget: €125,323 (contribution to University of Oviedo).
- Name: Potenciación de la competitividad del tejido empresarial español a través de la logística como factor estratégico en un entorno global (GLOBALOG). Subproyecto SP5-PSE GLOBALOG: Infraestructuras Logísticas: Evaluación de las Redes Atlántica-Mediterránea.  
Funding: Ministerio de Ciencia e Innovación (Spanish Ministry of Science and Innovation).  
Period: September 2006 - March 2009.  
Principal Researchers: Rosa Aza, José Baños and Adenso Díaz Fernández (University of Oviedo, Spain).  
Budget: €287,071 (contribution to University of Oviedo).

### **EVALUATION AND PHD EXAMINATION ACTIVITIES**

- Project evaluator for the Icelandic Research Fund (IRF) (Rannsóknamiðstöð Íslands - RANNÍS) (2022).
- Evaluator in the selection process of Research Fellows for the Madrid Institute for Advanced Study (MIAS) (2022-2023 Tomas y Valiente / Marcel Bataillon programme).
- Committee member – Roberto Balado Naves, PhD Thesis in Economics, “Essays on the relationship between energy and sustainable economic growth”, Department of Economics, School of Economics and Business, University of Oviedo, Oviedo, Spain, December 2021.

### **REFEREING ACTIVITIES**

*Economic Analysis and Policy*  
*Economic Modelling*  
*Economics and Business Letters*  
*Economics of Energy & Environmental Policy*  
*Empirical Economics*  
*Energy Economics*  
*Energy Efficiency*  
*Energy Policy*  
*Energy Research & Social Science*  
*Fusion Engineering and Design*

*International Economics and Economic Policy*  
*International Journal of Hydrogen Energy*  
*Journal of Environmental Management*  
*Journal of Productivity Analysis*  
*Review of Industrial Organization*  
*Sustainability*  
*The Energy Journal*  
*Transportation Research Part A: Policy and Practice*  
*Transportation Research Part D: Transport and Environment*  
*Utilities Policy*

### **LANGUAGES**

- **Danish** (Pre-intermediate level)
- **English** (Full professional proficiency)
- **Spanish** (Native)