Short CV

Manuel Llorca

Contact details

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Education

2015: PhD in Economics, University of Oviedo, Spain.
2008: Master of Economic Analysis, Universities of Basque Country, Cantabria, and Oviedo, Spain.
2008: Bachelor of Economics, University of Oviedo, Spain.
2005: Diploma in Business Science, University of Oviedo, Spain.

Professional Positions

2023- Assistant Professor, Copenhagen School of Energy Infrastructure (CSEI), Copenhagen Business School, Denmark.
2019-23 Postdoctoral Research Fellow, CSEI, Copenhagen Business School, Denmark.
2015-19: Early Career Fellow, Durham Energy Institute, Durham University, UK.
2015-19: Research Fellow, Durham University Business School, Durham University, UK.
2011-15: PhD Fellow, Department of Economics, University of Oviedo, Spain.
2010-11: Associate Lecturer, Department of Economics, University of Oviedo, Spain.
2008-10: Research Assistant, Department of Economics, University of Oviedo, Spain.

Research Interests / Research Profile

Efficiency analysis and regulation of energy networks; energy demand, efficiency, and rebound effects; energy issues in developing countries; energy sector reform; energy systems integration; energy poverty; public acceptance of energy infrastructure.

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* (forthcoming).

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.**, Khetrapal, 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., Rodríguez-Álvarez, 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, 1st 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.

Other contributions - Conference papers, reports, and response 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.

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).

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).

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).

Name: European Distributed Data Infrastructure for Energy (EDDIE).
Funding: Horizon Europe (HORIZON) Innovation Action (IA), European Commission.
Period: January 2023 - December 2025.
Principal Researcher: Oliver Hödl (University of Applied Sciences Upper Austria, Austria).

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).

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).

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).

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).

Name: Centre for Sustainable Road Freight Transport (CfSRF).
Funding: Engineering and Physical Sciences Research Council (EPSRC), UK.
Period: December 2012 - May 2018.
Principal Researcher: David Cebon (University of Cambridge, UK).

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: Spanish Ministry of Science and Innovation.
Period: April, 2009 - December, 2010.
Principal Researchers: Rosa Aza and José Baños (University of Oviedo, Spain).

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: Spanish Ministry of Education and Science.
Period: September, 2006 - March, 2009.
Principal Researchers: Rosa Aza and José Baños (University of Oviedo, Spain).