

DR. NIALL FARRELL

Lecturer in Economics, Queen's University Belfast.

Research Associate, University of Oxford, Institute for New Economic Thinking

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Research Interests: Energy and environmental economics; policy design; equity/efficiency effects of policy intervention, tax-benefit policy, decision-making under uncertainty, behavioural response to policy.

EDUCATION

Ph.D	National University of Ireland, Galway Thesis: <i>Economic Evaluation of Wave Energy Conversion Devices</i> Advisors: Dr. Cathal O'Donoghue; Dr. Karyn Morrissey	2009-2012
Visiting Student Researcher	University of California, Berkeley	2010 – 2011
M.Econ.Sc (Econ. & Environ. Modelling)	National University of Ireland, Galway Thesis: <i>Sustainable fishing in EU waters: assessment of current practices and alternative approaches</i> Grade: First class honours	2007-2008
Bachelor of Commerce (Economics)	National University of Ireland, Galway Grade: First class honours	2004-2007

EMPLOYMENT

Queen's University Belfast	Lecturer (Assistant Professor)	December 2019 – present
Potsdam Institute for Climate Impact Research	Marie Skłodowska-Curie Fellow	April 2018- November 2019
University of Oxford	Oxford Martin Fellow/Research Associate	Jan 2017 - present
Environmental Protection Agency	Economist	Jan 2016-Dec 2016
Economic and Social Research Institute	Postdoctoral Researcher in Energy Economics	Sept 2012- Dec 2015
Teagasc Rural Economy and Development Programme	Research Associate	Feb 2009- Sept. 2012

PEER-REVIEWED PUBLICATIONS

- 1) Pless, J., Hepburn, C., Rhys, J., **Farrell, N.** (2020) "Inducing and Accelerating Clean Energy Innovation with 'Mission Innovation' *Nature Energy*
- 2) **Farrell, N.**, O'Donoghue, C. and Morrissey, K. (2020) "Regional income and wave energy deployment in Ireland, *Papers in Regional Science*
- 3) **Farrell, N.** 'Inefficient electricity tariffs and welfare-reducing investment: an increasing cost of ignoring Coase?' [R&R; *Energy Economics*]
- 4) **Farrell N.** (2017). 'Analysing socioeconomic inequities in carbon tax incidence using the concentration index.' *Ecological Economics*
- 5) **Farrell, N.** et al. (2017). 'Specifying an Efficient Renewable Energy Feed-in Tariff,' *The Energy Journal*, 38(2), 53-76.

- 6) Morstyn, T., **Farrell, N.**, Darby, S., McCulloch, M. (2018). 'Using Peer-to-Peer Energy Trading Platforms to Incentivise Prosumers to Form Federated Power Plants' *Nature Energy*.
- 7) **Farrell, N.**, Devine, M., & Soroudi, A. (2018). 'An auction framework to integrate dynamic transmission expansion planning and pay-as-bid wind connection auctions', *Applied Energy*
- 8) Devine, M. and **Farrell, N.**, Lee, W. (2017). 'Managing investor and consumer exposure to electricity market price risks through feed-in tariff design.' *Sustainable Energy, Grids and Networks*.
- 9) **Farrell, N.** & Lyons, Seán (2016). 'Equity impacts of energy and climate policy: who is shouldering the burden?' *Wiley Interdisciplinary Reviews: Energy and Environment*, doi: 10.1002/wene.201
- 10) **Farrell, N.** & Lyons, S. (2015). 'Who should pay for renewable energy? Comparing the household impacts of different policy mechanisms in Ireland,' *Energy Research and Social Science*, 7, 31-42.
- 11) **Farrell, N.**, O'Donoghue, C. and Morrissey, K. (2015). 'Quantifying the uncertainty of wave energy conversion device cost for policy appraisal: An Irish case study', *Energy Policy*, <http://dx.doi.org/10.1016/j.enpol.2014.11.029i>.
- 12) Morrissey, K and O'Donoghue, C and **Farrell, N.** (2014). The Local Impact of the Marine Sector in Ireland: A Spatial Microsimulation Analysis, *Spatial Economic Analysis*, 9 (1). pp. 31-50.
- 13) **Farrell, N.**, et al. (2012). 'Addressing failures of the Common Fisheries Policy: How principles of devolved community-based governance may improve the sustainability of Irish fisheries,' *The Irish Review of Community Economic Development Law & Policy*, 1(3), 53-74.
- 14) **Farrell, N.**, et al. (2013). 'Creating a Spatial Microsimulation Model of the Irish Local Economy' in Edwards, K., Tanton, R. (eds) *Spatial Microsimulation : A Reference Guide for Users*. Springer-Verlag.

NON PEER-REVIEWED PUBLICATIONS

- 15) Mattauch, L., Millar, R., van der Ploeg, F., Rezai, A., Schultes, A., Venmans, F., Bauer, N., Dietz, S., Edenhofer, O., **Farrell, N.**, Hepburn, C., Luderer, G., Pless, J., Spuler, F., Stern, N., Teytelboym, A. "Steering the Climate: An Extended Comment" *London School of Economics Working Paper (2018)*.
- 16) O'Donoghue, C., **Farrell, N.**, Ballas, D., Clarke, G., Hynes, S., Lennon, J., Morrissey, K., (2012). The SMILE model: construction and calibration in O'Donoghue, C., Ballas, D., Clarke, C., Hynes, S., Morrissey, K. (eds.) *Spatial Microsimulation for Rural Policy Analysis*. Springer-Verlag.
- 17) Curtis, J., Devitt, N., di Cosmo, V., **Farrell, N.**, FitzGerald, J., Hyland, M., Lynch, M., Lyons, S., McCoy, D., Malaguzzi Valeri, L., Walsh, D. (2014). 'Irish Energy Policy: An Analysis of Current Issues', Economic and Social Research Institute (ESRI), Research Series Number RS37.
- 18) **Farrell, N.** 'Wind Energy in Ireland' (2014). In: O'Donoghue et al. (eds.) *Rural Economic Development in Ireland*, pp. 122-147. Oak Park: Teagasc.

IN PREPARATION

- 19) **Farrell N.**, "*The efficiency of the I-SEM electricity market.*"

20) Farrell N., "Incorporating poverty into climate impact estimation"

21) Farrell, N., Hepburn, C., Pless. J. "The future of electricity markets"

22) Farrell, N., Wang, X. "Climate change adaptation and poverty"

CONTRIBUTIONS TO POLICY

23) Farrell, N. (2014) *contribution to the Irish Commission for Economic Development in Rural Areas relating to wind energy and economic development in Ireland*

24) Farrell, N. (2014) "The distributional impacts of Energy and Environmental Policy in Ireland" *Eolas industry magazine invited submission*

25) Policy submissions on the regulation of renewable energy connection contracts (Irish Commission for Energy Regulation), energy poverty (Irish Department of Communications Energy and Natural Resources), the Alternative Fuels Framework, and the Strategic Environment Assessment for Flood Risk Management (Irish Office of Public Works)

MEDIA COVERAGE

Irish Times: *Electricity users shoulder €400m burden of renewables scheme.*

Available: <http://www.irishtimes.com/business/energy-and-resources/electricity-users-shoulder-400m-burden-of-renewables-scheme-1.3055816>

BusinessInsider: *MIT Sloan professor identifies key challenges and solutions for evaluating energy innovation policy*

<https://markets.businessinsider.com/news/stocks/mit-sloan-professor-identifies-key-challenges-and-solutions-for-evaluating-energy-innovation-policy-1029194007>

SELECTED PRESENTATIONS

2017: ZEW Mannheim (6/10/2017)

2017: Environment Ireland Conference, Dublin (28/9/2017): "Brexit and Irish Environmental Policy"

EAERE Annual Conference, Manchester, 2019

IAEE International conference, Montreal, 2019

Bergen Economics of Energy and Environmental Research Conference, NHH Bergen, 2015

Mannheim Energy Conference, Mannheim, 2013, 2014, 2018

International Association for Energy Economists: 13th and 14th European IAEE Conference, 2013, 2014

Regional Science Association International: British-Irish Section, 2010, 2011, 2015, 2017

Irish Economic Association Annual Conference 2014, 2018

International Microsimulation Association Conference 2012 (two presentations on Spatial Microsimulation)

Irish Rural Studies Symposium. RERC, Teagasc, Athenry, 2009.

Queen's, INET Oxford, UCD, ESRI, NUI Galway and Teagasc internal seminars

ORGANISATION, ADMINISTRATION AND OUTREACH

2019 onwards: Founded 'The Irish Economics Podcast' (www.IrishEconPod.com)

2019: PIK-Potsdam Seminar on Applied Econometrics and Simulation Modelling

2018: St. Anne's College, University of Oxford: "Future of Electricity" Energy Economics Conference. Lead organiser and creative force behind transatlantic meeting of leading energy economists. Responsible for all aspects of workshop organisation.

Speakers included Frank Wolak (Stanford), Catherine Wolfram, Dan Kammen (UC Berkeley); Richard Green (Imperial); Andreas Loeschel (Uni. Muenster).

2018: Oxford Martin School Blog entries

2015: *ESRI, Dublin*. Economics for Energy Industry Course at ESRI (2015)

2014: *UCD, Dublin*. Member of Organising Committee: Sustainable Electrical Energy Systems Annual Research Symposium. University College Dublin, October 2014

ACADEMIC AWARDS

Barrington Medal awarded by the Statistical & Social Inquiry Society of Ireland (2020/21)

Postgraduate Fellowship Award from the Discipline of Economics at the National University of Ireland, Galway (2008).

University Scholar Award by the National University of Ireland, Galway (2006)