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## Personal Statement

I joined the University of Strathclyde in 2019 as a Chancellor's Fellow working jointly between the Departments of Government & Public Policy and Electronic & Electrical Engineering. I am also the Research Director of the UK's Energy Revolution Research Consortium (EnergyREV). Prior to this I held positions at the University of Oxford, the University of Otago in New Zealand (where I served as Deputy Director of their Centre for Sustainability) and at Victoria University of Wellington.

My research explores how people interact with energy systems, and how social, environmental, and technological insights can be co-developed to better inform policy for sustainable development. I take a multidisciplinary approach to my work, and believe in the importance of research for impact, and in bridging the gap between different forms of knowledge to advance solutions tackling climate change.

## Research outputs

### **Community matters: sustainable transition of systems of water provision**

Major, L., Roberts, J. & Ford, R., 31 Jul 2022, 4 p. Glasgow

### **Enabling a Just Transition to Net Zero: a Manifesto for Change**

Bray, R. & Ford, R., 1 Jul 2022, Glasgow: University of Strathclyde. 13 p.

### **Skills deployment for a 'just' net zero energy transition**

Bray, R., Mejía Montero, A. & Ford, R., 31 Mar 2022, In: Environmental Innovation and Societal Transitions. 42, p. 395-410 16 p.

### **Working Paper 3 : Decarbonisation of Heat: How Smart Local Energy Systems Can Contribute**

Morris, M., Hardy, J., Bray, R., Elmes, D., Ford, R., Hannon, M. & Radcliffe, J., 2 Feb 2022, Glasgow: University of Strathclyde. 65 p.

### **The (in)justices of smart local energy systems: a systematic review, integrated framework, and future research agenda**

Knox, S., Hannon, M., Stewart, F. & Ford, R., 31 Jan 2022, In: Energy Research and Social Science. 83, 13 p., 102333.

### **Delivering a Just Transition to Net Zero: Whose Role is it Anyway?**

Bray, R. & Ford, R., 18 Nov 2021, Glasgow: University of Strathclyde. 22 p.

### **Smart local energy systems (SLES): a framework for exploring transition, context, and impacts**

Ford, R., Maidment, C., Vigurs, C., Fell, M. J. & Morris, M., 31 May 2021, In: Technological Forecasting and Social Change. 166, 16 p., 120612.

### **Energy Justice POINTs: Policies to Create a More Sustainable & Fairer Future for All**

Bray, R. & Ford, R., 13 May 2021, Glasgow: University of Strathclyde. 31 p.

### **Are we seeing clearly? The need for aligned vision and supporting strategies to deliver net-zero electricity systems**

Ford, R. & Hardy, J., 31 Dec 2020, In: Energy Policy. 147, 111902.

### **Easy or arduous? Practices, perceptions and networks driving lighting transitions from kerosene to solar in Vanuatu**

Walton, S. & Ford, R., 31 Jul 2020, In: Energy Research and Social Science. 65, 10 p., 101449.

**Detailed comparison of energy-related time-use diaries and monitored residential electricity demand**

Suomalainen, K., Eysers, D., Ford, R., Stephenson, J., Anderson, B. & Jack, M., 15 Jan 2019, In: Energy and Buildings. 183, p. 418-427 10 p.

**Understanding the path to smart home adoption: segmenting and describing consumers across the innovation-decision process**

Sanguinetti, A., Karlin, B. & Ford, R., 31 Dec 2018, In: Energy Research and Social Science. 46, p. 274-283 10 p.

**What's energy management got to do with it? Exploring the role of energy management in the smart home adoption process**

Sanguinetti, A., Karlin, B., Ford, R., Salmon, K. & Dombrowski, K., 31 Oct 2018, In: Energy Efficiency. 11, 7, p. 1897–1911 15 p.

**Energy efficiency: behavioral contributions from around the globe**

Karlin, B., Lopes, M. A. R., Ford, R. & Peffer, T. E., 17 Oct 2018, In: Energy Efficiency. 11, p. 1561–1562 2 p.

**Reaching a 1.5°C target: socio-technical challenges for a rapid transition to low carbon electricity systems**

Eyre, N., Darby, S. J., Grünewald, P., McKenna, E. & Ford, R., 2 Apr 2018, In: Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences. 376, 2119, 15 p., 20160462.

**Home energy management (HEM) database: a list with coded attributes of 308 devices commercially available in the US**

Pritoni, M., Ford, R., Karlin, B. & Sanguinetti, A., 28 Feb 2018, In: Data in Brief. 16, p. 71-74 4 p.

**Smart grid research in New Zealand - a review from the GREEN Grid research programme**

Stephenson, J., Ford, R., Nair, N-K., Watson, N., Wood, A. & Miller, A., 28 Feb 2018, In: Renewable and Sustainable Energy Reviews . 82, Part 1, p. 1636-1645 10 p.

**Categories and functionality of smart home technology for energy management**

Ford, R., Pritoni, M., Sanguinetti, A. & Karlin, B., 31 Oct 2017, In: Building and Environment. 123, p. 543-554 12 p.

**Comparative analysis of monitored and self-reported data on electricity use**

Suomalainen, K., Jack, M., Byers, D., Ford, R. & Stephenson, J., 13 Jul 2017. 4 p.

**Energy UX: leveraging multiple methods to see the big picture**

Karlin, B., Koleva, S., Kaufman, J., Sanguinetti, A., Ford, R. & Chan, C., 14 May 2017, *Design, User Experience, and Usability: Understanding Users and Contexts: 6th International Conference, DUXU 2017, Held as Part of HCI International 2017, Vancouver, BC, Canada, July 9-14, 2017, Proceedings, Part III*. Marcus, A. & Wang, W. (eds.). Cham, Switzerland: Springer, p. 462-472 11 p. (Lecture Notes in Computer Science; vol. 10290).

**Emerging energy transitions: PV uptake beyond subsidies**

Ford, R., Walton, S., Stephenson, J., Rees, D., Scott, M., King, G., Williams, J. & Wooliscroft, B., 30 Apr 2017, In: Technological Forecasting and Social Change. 117, p. 138-150 13 p.

**Modelling and simulation of a solar PV lithium ion battery charger for energy kiosks application**

Palmiro, F., Rayudu, R. & Ford, R., 12 Jan 2017, *2015 IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC)*. IEEE, 5 p.

**Evaluating the impact of energy interventions: home audits vs. community events**

Scott, M. G., McCarthy, A., Ford, R., Stephenson, J. & Gorrie, S., 31 Dec 2016, In: Energy Efficiency. 9, 6, p. 1221–1240 20 p.

**Assessing Players, Products, and Perceptions of Home Energy Management**

Ford, R., Karlin, B., Sanguinetti, A., Nersesyan, A. & Pritoni, M., 19 Nov 2016, San Francisco, CA. 146 p.

**The effects of feedback on energy conservation: a meta-analysis**

Karlin, B., Zinger, J. & Ford, R., 30 Nov 2015, In: Psychological Bulletin. 141, 6, p. 1205-1227 23 p.

**Keen on EVs: Kiwi perspectives on electric vehicles, and opportunities to stimulate uptake**

Ford, R., Stephenson, J., Scott, M., Williams, J., Rees, D. & Wooliscroft, B., 1 Jun 2015, Otago. 10 p.

**The energy cultures framework: exploring the role of norms, practices and material culture in shaping energy behaviour in New Zealand**

Stephenson, J., Barton, B., Carrington, G., Doering, A., Ford, R., Hopkins, D., Lawson, R., McCarthy, A., Rees, D., Scott, M., Thorsnes, P., Walton, S., Williams, J. & Wooliscroft, B., 31 May 2015, In: Energy Research and Social Science. 7, p. 117-123 7 p.

**What Do We Know About What We Know? A Review of Behaviour-Based Energy Efficiency Data Collection Methodology**

Karlin, B., Ford, R., Wu, A., Nasser, V. & Frantz, C., 1 May 2015, 35 p.

**Characterization and Potential of Home Energy Management (HEM) Technology**

Karlin, B., Ford, R., Sanguinetti, A., Squiers, C., Gannon, J., Rajukumar, M. & Donnelly, K. A., 1 Feb 2015, San Francisco, CA. 128 p.

**PV in Blueskin: Drivers, barriers and enablers of uptake of household photovoltaic systems in the Blueskin communities, Otago, New Zealand**

King, G., Stephenson, J. & Ford, R., 1 Oct 2014, Otago, NZ. 44 p.

**Photovoltaic (PV) Uptake in NZ: The story so far**

Ford, R., Stephenson, J., Scott, M., Williams, J., Wooliscroft, B., King, G. & Miller, A., 1 Sep 2014, Otago, NZ. 10 p.

**Lighting Vanuatu – Independent Evaluation Plan. Report for AusAID as part of the Independent Completion review of AusAID's Lighting Vanuatu project.**

Ford, R., Doering, A., Gabriel, C-A. & Walton, S., 1 Aug 2014, 149 p.

**Energy feedback technology: a review and taxonomy of products and platforms**

Karlin, B., Ford, R. & Squiers, C., 30 Jun 2014, In: Energy Efficiency. 7, 3, p. 377–399 23 p.

**Personalized Energy Priorities: A User-Centric Application for Energy Advice**

Ford, R., Sumavsk, O., Clarke, A. & Thorsnes, P., 27 Jun 2014, *DUXU 2014: Design, User Experience, and Usability. User Experience Design for Everyday Life Applications and Services, Part III*. Marcus, A. (ed.). Vol. 8519. p. 542-553 12 p. (Lecture Notes in Computer Science; vol. 8519).

**User-centred design of an audio feedback system for power demand management**

Ford, R., Penn, J., Liu, Y-C., Nixon, K., Cronje, W. & McCulloch, M., 27 Jun 2014, *DUXU 2014: Design, User Experience, and Usability. User Experience Design for Everyday Life Applications and Services, Part III*. Marcus, A. (ed.). Vol. 8519. p. 530-541 12 p. (Lecture Notes in Computer Science; vol. 8519).

**Transport Transitions in New Zealand: A scoping study**

Ford, R., Doering, A. & Stephenson, J., 1 May 2014, Otago, NZ. 51 p.

**Energy Transitions: Home Energy Management Systems (HEMS)**

Ford, R., Stephenson, J., Brown, N. & Stiehler, W., 2014, Otago, NZ. 66 p.

**Suricatta: a platform to model smart grid technologies in the distribution system**

Ford, R., McCulloch, M., Helfer, T. & Surrall, S., 9 Oct 2013, *IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe) 2013*. IEEE, 5 p.

### **The Usability Perception Scale (UPscale): A Measure for Evaluating Feedback Displays**

Karlin, B. & Ford, R., 26 Jul 2013, *Design, User Experience, and Usability. Design Philosophy, Methods, and Tools: Proceedings of Second International Conference, DUXU 2013*. Marcus, A. (ed.). Berlin: Springer, Vol. 8012. p. 312-321 10 p. (Lecture Notes in Computer Science; vol. 8012).

### **Graphical Displays in Eco-Feedback: A Cognitive Approach**

Ford, R. & Karlin, B., 2013, *Design, User Experience, and Usability. Web, Mobile, and Product Design: Proceedings Second International Conference, DUXU 2013 Part IV*. Marcus, A. (ed.). Berlin: Springer, Vol. 8015. p. 486-495 10 p. (Lecture Notes in Computer Science; vol. 8015).

## **Awards and Research Grants**

2018-2022	Co-I, Energy Revolution Research Consortium, funding from UKRI, £9.8m
2012-2018	Renewable Energy and the Smart Grid, funded by the New Zealand Ministry of Business, Innovation and Employment (MBIE), \$7,332,809
2015-2016	New Smart Grid Technologies, funding from the New Zealand Smart Grid Forum, \$25,327
2013-2015	Household Energy End Use Study, funding from Powerco and Unison, \$70,000
2013-2014	2050 Pathways New Zealand, funded by National Energy Research Institute, \$80,000
2012-2014	Named Researcher, Energy Cultures 2, funded by MBIE, \$3,199,684
2012-2013	Lighting Vanuatu, funded by Australian Aid, \$75,829
2012-2013	Energy Transitions: Home and Transport, funded by New Zealand Energy Efficiency and Conservation Authority, \$40,000
2010, 2014	Stanford University Precourt Energy Efficiency Fellowship

## **Professional Activities**

2019	Ofgem Network Innovation Competition Expert Panel member
2019-2022	Research Director and Executive Committee Member of EnergyREV Research Consortium
2015-2019	Research director at SEE Change Institute
2016	Co-convenor of the Energy Cultures International Conference
2014-2015	Co-chair of the 2050 Pathways New Zealand Steering Committee,
2012-2015	Steering Committee Member for the Otago Energy Research Centre
2012-2014	Leadership Council Member for the Garrison Institute's Climate, Mind, and Behaviour Program

## **Employment History**

2016-2019	Researcher, Environmental Change Institute, University of Oxford, UK
2015-2016	Deputy Director and Senior Research Fellow, Centre For Sustainability, University of Otago, NZ
2013-2015	Lecturer, School of Engineering and Computer Science, Victoria University of Wellington
2011-2013	Postdoctoral Fellow, Centre for Sustainability, University of Otago, NZ

## **Qualifications**

Doctor of Philosophy, University of Oxford  
9 Oct 2006 → 8 Jan 2010  
Award Date: 8 Jan 2010

Master of Engineering, University of Oxford  
1 Oct 2002 → 30 Jun 2006  
Award Date: 30 Jun 2006