IN SEARCH OF GOOD ENERGY POLICY

Drawing on political science, economics, philosophy, theology, social anthropology, history, management studies, law, and other subject areas, *In Search of Good Energy Policy* brings together leading academics from across the social sciences and humanities to offer an innovative look at why science and technology, and the type of quantification they champion, cannot alone meet the needs of energy policy making in the future. Featuring world-class researchers from the University of Cambridge and other leading universities around the world, this innovative book presents an interdisciplinary dialogue in which scientists and practitioners reach across institutional divides to offer their perspectives on the relevance of multi-disciplinary research for 'real world' application. This work should be read by anyone interested in understanding how multidisciplinary research and collaboration is essential to crafting good energy policy.

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that investigate energy demand. Her work often takes a participatory approach, and she held a public engagement fellowship to run a community energy project in London. She has been interviewed by national print and broadcast media about public participation in urban energy transitions. She has also participated in government and NGO knowledge transfer programmes, providing expertise on resident involvement with District Heating in the UK. Her research has been published in anthropological and interdisciplinary journals.

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- Victor O.K. Li received SB, SM, EE and ScD degrees in electrical engineering and computer science from MIT. Victor is Chair of Information Engineering, Cheng Yu-Tung Professor in Sustainable Development, and Head of the Department of Electrical & Electronic Engineering at the University of Hong Kong. He is the Director of the HKU-Cambridge Clean Energy and Environment Research Platform, an interdisciplinary collaboration with Cambridge. He was the Associate Dean (Research) of Engineering and Managing Director of Versitech Ltd. He serves on the board of Sunevision Holdings Ltd., listed on the Hong Kong Stock Exchange and co-founded Fano Labs Ltd., an artificial intelligence (AI) company with his PhD student. Previously, he was Professor of Electrical Engineering at the University of Southern California (USC) in Los Angeles and Director of the USC Communication Sciences Institute. His research interests include big data, AI, optimisation techniques and interdisciplinary clean energy and environment studies. In January 2018 he was awarded a USD 6.3 M RGC Theme-based Research Project to develop deep learning techniques for personalised and smart air pollution monitoring and health management in HK. Sought by government, industry and academic organisations, he has extensively lectured and consulted internationally. He has received numerous awards, including the PRC Ministry of Education Changjiang Chair Professorship at Tsinghua University, the UK Royal Academy of Engineering Senior Visiting Fellowship in Communications, the Croucher Foundation Senior Research Fellowship, and the Order of the Bronze Bauhinia Star, Government of the HKSAR. He is a fellow of the Hong Kong Academy of Engineering Sciences, the IEEE, the IAE and the HKIE.
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Committee of the island of Ireland and a panel member of Ofgem's Network Innovation Competition. His books include *Privatization, Restructuring and Regulation of Network Utilities* (2000) and with Joe Stiglitz, *The Theory of Commodity Price Stabilization:* A *Study in the Economics of Risk* (1981).

- Michael Northcott is Professor Emeritus of Ethics at the University of Edinburgh and has been Visiting Professor at Claremont School of Theology, Duke University, Flinders University, Heidelberg University, the Indonesian Consortium of Religious Studies and the University of Malaya. His principal research has been on the religious roots, and ethical implications, of environmental concern and climate change. He has conducted fieldwork in, and published many papers on, the relationship between religion and environmental concern in the UK, the United States and Southeast Asia. His PhD was published as The Church and Secularisation: Urban Industrial Mission in Northeast England (1991), and his first major research monograph was The Environment and Christian Ethics (Cambridge University Press, 1996). Other monographs include Life After Debt: Christianity and Global Justice (1999); An Angel Directs the Storm: Apocalyptic Religion and American Empire (2005); A Moral Climate: The Ethics of Global Warming (2007); A Political Theology of Climate Change (2013) and Place, Ecology and the Sacred (2015). His co-edited books include Diversity and Dominion: Dialogues in Ecology, Ethics, and Theology (2009), Theology After Darwin (2009) and Systematic Theology and Climate Change (2016).
- Lord Ronald Oxburgh taught geology and geophysics at Oxford, Cambridge, Stanford and Caltech. He was Head of the Department of Earth Sciences in Cambridge and served for seven years as President of Queens' College. He served as Chief Scientific Adviser to the UK Ministry of Defence (1987–1993) and chaired the inquiry into the safety of UK nuclear weapons. He subsequently became Rector of Imperial College. Ron advises the Government of Singapore in matters of environment, water and higher education. He is Chairman of Green Energy Options and 2OC, is the former Honorary President of the Carbon Capture and Storage Association and former Chairman of Shell Transport and Trading. He is a fellow of the Royal Society and of the Royal Academy of Engineering, and a foreign member of the US Academy of Sciences. He has served as President of the European Union of Geosciences, and of the British Association for the Advancement of Science. He has chaired the Trustees of the Natural History Museum. Ron was created a life Peer in 1999 and for four years chaired the Science and Technology Committee of the House of Lords.
- Marc Ozawa is an associated researcher of the Energy Policy Research Group at the Judge Business School, University of Cambridge. He began his career analysing

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the first joint oil and gas ventures in Russia and Central Asia following the collapse of the Soviet Union. More recently, he worked as a research associate for Energy@Cambridge and was the Associate Director of the Energy Policy Forum, University of Cambridge. He held previous research and editorial positions at IHS CERA, Harvard Business School and the Yale Journal of International Affairs. His current research examines the role of trust in international relations, NATO-Russian relations and Russian, East European and Eurasian affairs. Marc has an interdisciplinary background that includes politics, economics and area studies. He is a graduate of the University of Alaska (BA), Yale University (MA) and the University of Cambridge (MSt, PhD).

Michael James Platts is Senior Teaching Associate at the Institute for Manufacturing, University of Cambridge. Jim spent twenty-three years in industry. With a civil/structural engineering background, he was a partner in the consulting engineering practice Gifford and Partners and Managing Director of Composite Technology Ltd in the 1980s, where he created the designs, the manufacturing processes, the team and the company that manufactured all the large wind turbine blades in the UK, now the global blade technology centre for the wind turbine company Vestas. For the last twenty-nine years he has been based in the Institute for Manufacturing in the University of Cambridge, where he was Course Director for the Manufacturing Engineering Tripos and Leading Examiner and Tutor for the Manufacturing Leaders' Programme and supervised well over 300 technical development projects in companies. He was also a director of studies for the executive-level Cambridge Interdisciplinary Design for the Built Environment (IDBE) Course, a tutor and examiner for the Engineering for Sustainable Development (ESD) Course and an associate researcher of the Energy Policy Research Group (EPRG). He initiated and led Summer Academies for European Students of Industrial Engineering and Management (ESTIEM) on 'Deep Entrepreneurship' and initiated and headed the European Professors of Industrial Engineering and Management (EPIEM) network. He is involved in leadership training, innovative manufacturing and development projects across many industries worldwide. He has been involved with technology transfer to, and design and manufacturing development of, wind energy technology in China. He served on the Malaysian Palm Oil Board Programme Advisory Committee and coordinated the development of its forward strategy recommendations in 2010, and served on FELDA's R&D Advisory Panel. He brings valuable experience in design and manufacturing, particularly skillbased manufacturing, to projects. His academic interests include ethical leadership, development of skill and competence in design and manufacturing and optimisation of manufacturing processes. He is a Quaker and holds an MA from the University of Cambridge, is a Chartered Engineer and a member of the Institution of Civil Engineers, a member of the Institute of Materials, Minerals List of Contributors

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Imperial College Business School. Between degrees, Sandy worked for the policy research consultancy Brook Lyndhurst, advising the public sector on pro-environmental behaviour change policy. During the three years she spent there, she worked on a variety of environmental issues, first as a researcher and later as a project manager.

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connections between territorial and sovereignty issues, conducting empirical research on maritime search and rescue, materiality of energy/resource development and theoretical research on evolutions in normative frameworks including vertical sovereignty, justice and environmental stewardship. Recent work includes publications comparing different periods of energy development in the Arctic, effective occupation in policy practices and the performances of sovereignty over territory by Arctic states.

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