Contributors

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Karen Bickerstaff is Associate Professor of Geography at the University of Exeter, UK. Her research is concerned with the geographical and ethical dimensions of public engagements with environmental risk and change. Her research is inter-disciplinary and ties issues of risk, energy and climate to fundamentally geographical questions about the nature of knowledge, the means and ends of political participation and the experience of environmental injustice. Karen’s work falls into three main topics: making energy transitions public, understanding environmental justice, and risk and knowledge. She has published widely in journals such as Energy Policy, Geoforum, Antipode, Environment and Planning A and International Journal of Urban and Regional Research. She is also the lead editor of Energy Justice in a Changing Climate: Social Equity and Low-Carbon Energy (2013).

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M. Jean Blair is a doctoral candidate at Queen’s University, Canada, in the Department of Geography and Planning. Her work focuses on bioenergy supply chain and policy analysis within the context of energy system innovation and sustainable energy transitions. It combines techno-economic analysis of potential bioenergy pathways with an assessment of the socio-ecological impacts of the same pathways. This work is supported by an NSERC Alexander Graham Bell CGS-D scholarship. Jean also manages a project on bioenergy supply chains within the national bioenergy research network, BioFuelNet. In addition to this academic work, Jean plays a role in the implementation of bioenergy projects through her position as Research Associate with TorchLight Bioresources. Jean holds an MSc in Geography from Queen’s University.

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Gavin Bridge is Professor of Geography at Durham University, UK. Previously, he was on the faculty at the University of Manchester. His research interests include geographies of energy transitions and governance; questions of property, access and control associated with ‘new geographies’ of resource production and consumption; the organization of global production networks for raw materials, particularly those associated with old and new ‘carbon economies’; political ecologies of resource scarcity and security; and the ways in which the material character of ‘biophysical’ resources shapes their appropriation, commodification and marketization. Gavin is widely published in energy and climate policy and in a variety of geography journals including *Economic Geography, Journal of Economic Geography, Progress in Human Geography, The Professional Geographer, Geoforum, Antipode, Environment and Planning A* and *The Geographical Journal*. His latest books include *The Routledge Handbook of Political Ecology* (co-edited with Tom Perreault and James McCarthy, 2015) and *Oil*, second edition (with Philippe Le Billon, 2017).

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In 2013, her work about planning for climate change in Mozambique was recognized as a Lighthouse Activity for the Urban Poor by the United Nations Framework Convention on Climate Change (UNFCCC). In 2016 Vanesa was awarded the Philip Leverhulme Prize for contributions to Geography.

Deepti Chatti is a doctoral candidate at Yale University, USA, in the School of Forestry and Environmental Studies. Her doctoral dissertation is a study of the political ecology of household energy transitions in rural India. She is conducting a multi-sited ethnography to understand the local, regional, national, international and cross-scale dimensions of energy transitions. Deepti’s research brings together themes relevant to critical energy geography, household energy studies, anthropology of development, environmental anthropology, South Asia studies and science and technology studies. She relies on her diverse training in engineering and anthropology to incorporate human dimensions into energy research. Deepti has an MPhil in environmental studies from Yale University and an MS in Environmental Engineering and Science from Stanford University.

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Ethan B. Davis is a doctoral candidate in Ecology in the Department of Geography at Pennsylvania State University, USA. Prior to this he worked as an energy analyst at the Union of Concerned Scientists and Dartmouth College. He also worked as a research assistant for the US Department of Energy at Oak Ridge National Laboratory. Ethan helped develop Green-e certification standards for bioenergy. His research focuses on greenhouse gas emissions associated with energy production and use and also examines carbon mitigation from forest sequestration. He uses geospatial data sets to examine land use patterns associated with renewable energy in terms of greenhouse gas emissions and food security. He has published in a variety of journals and technical reports.

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Kajsa Ellegård is Professor of Technology and Social Change at Linköping University, Sweden. She graduated in Human Geography at Gothenburg University. She was a member of the Research group in Human Geographic Process and System Analysis at Lund University, led by Professor Torsten Hägerstrand, the founder of time-geography. She edited the final book by Torsten Hägerstrand, Tillvaroväven (the English title is The Fabric of Existence) (edited with Uno Svedin, 2009). She has developed a time-geographic diary method and published international articles on energy use in households emphasizing the difference between individual and household – and on time-geography. She is currently writing a reader in Time-Geography.

Christophe Enaux is Professor of Geography at Strasbourg University, France, where he co-directs the graduate program in environmental geography. As a member of the research unit LIVE (UMR 7362 University of Strasbourg-CNRS), his own research focuses on mobility behaviors, physical activity in daily mobility and energy consumption related to mobility behaviors. Christophe is also using geospatial tools to build and implement at a local scale a territory characterization system for energy consumption, in order to better support spatial planning. He has published in a variety of journals in transport geography, behavioral and health studies, among others.

Karl-Heinz Erb is Associate Professor for Land Use and Global Change at Alpen-Adria Universitäts Klagenfurt-Wien-Graz, at the Institute for Social Ecology, Austria. Karl-Heinz’s research interests include the interactions between humans and global environmental systems; land system science; understanding the interrelation of socio-economic material and energy flows and land use, land use change and land cover change; land use and its consequences for ecosystem structures and functioning; development and
collation of global land use data sets; human appropriation of net primary production; human impacts on the global carbon cycle; methods of carbon accounting; environmental indicators; and socio-ecological metabolism. He has published widely in journals such as *Proceedings of the National Academy of Sciences of the United States of America, Land Use Policy, Ecological Economics* and *Current Opinion in Environmental Sustainability*.

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Arielle Hesse is a doctoral candidate at Pennsylvania State University in the Departments of Geography and Women’s, Gender, and Sexuality Studies. Trained as a feminist health geographer, her research interests lie at the intersection of energy, health and labor. Arielle’s current research considers the relationship between the state and human health
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**Ping Huang** is Postdoctoral Fellow in the Bartlett Development Planning Unit at University College London, UK. His research focuses on urban energy transitions from both socio-technical and socio-spatial perspectives, with emphasis on the interdependence between energy transitions and reproduction of urban processes. In particular, Ping’s research on urban energy transitions aims to answer the key research question: ‘Why does energy innovation and, hence, urban energy transitions, occur in one city but not in another?’. Ping is also using Technological Innovation System (TIS) framework to explore innovation process and innovation policy in Chinese renewable energy industries. He has published in journals such as *Renewable and Sustainable Energy Reviews* and *Technological Forecasting and Social Change*.

**Philip Johnstone** is Research Fellow at the Science Policy Research Unit (SPRU), University of Sussex, UK. Phil is a human geographer interested in the political and democratic implications of technological change, and currently works on a research project on disruptive innovation, industrial policy and institutional dynamics in the energy sector. He has a particular interest in nuclear power issues, including research on the relations between the civilian and military programs in the UK and Brazil. Phil has also written on the governance of radioactive waste, and the role of democratic cultures in understanding divergences in nuclear policy.

**Fridolin Krausmann** is Professor of Sustainable Resource Use at the Institute of Social Ecology at Alpen-Adria University in Vienna, Austria. He investigates socio-metabolic transition processes and studies long-term changes in the use of energy, materials and land in local rural and urban systems, in national economies and at the global scale. Fridolin has co-authored numerous articles in peer-reviewed journals in industrial ecology, ecological economics and land use science. Together with Helmut Haberl, Marina Fischer-Kowalski and Verena Winiwarter, he co-edited *Social Ecology: Society-Nature Interaction Across Time and Space* (2016).

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Maria Niedertscheider is Researcher and Lecturer at the Institute of Social Ecology, Alpen-Adria University Klagenfurt, Wien, Graz, Austria, where she completed her PhD. Maria has a strong interdisciplinary background and holds an MS in Ecology from the University of Vienna. Her research is on land use change with a particular emphasis on carbon stocks and flows at different spatial and temporal scales. Maria’s research interests include the analysis of land use intensity changes and their effects on land systems, as well as their long-term socio-economic drivers. She has expertise in spatial modeling and has worked on several international research projects.

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Saska Petrova is Lecturer in Human Geography at the School of Environment, Education and Development at the University of Manchester, UK. She is also the Research Coordinator of the Collaboratory for Urban Resilience and Energy within the Manchester Urban Institute. Her work focuses on how low-carbon urban transitions affect vulnerable and governable people and communities. A main research interest is on energy poverty and vulnerability. Saska has published extensively on these issues, including a monograph on *Communities in Transition* (2014) as well as articles in scientific journals such as *Environment and Planning A*, *Area*, *GeoForum*, *GeoJournal* and *Energy Policy*. Saska has extensive professional background as a public advocate and consultant for a range of government institutions and think tanks.

Paolo Picchi is landscape architect and President of AIAPP in Rome (Italian Association of Landscape Architecture). Paolo holds a PhD from Trento University and is a member of the NRGlab at Wageningen University, the Netherlands. His PhD research concerned the relationship between the landscapes of energy transition and the Ecosystem Services. The research specifically aimed to introduce an Ecosystem Services approach into the planning and design of sustainable energy landscapes. Paolo lectures at conferences and seminars across Europe, for example, the IFLA 2016 World Congress in Turin where he discussed the role of the landscape architect in local renewable energy organizations. He has published book chapters, essays and papers in the field of landscape architecture and landscape ecology.

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of ethics to better understand the uneven geographies and local dynamics of socio-spatial change. He has conducted fieldwork into the social geographies and livelihood strategies of communities in South Africa, Mexico, the Caribbean and the US South. His current research is focused around a multi-year collaborative project that utilizes a mixed-methods research design to investigate the intersecting dynamics of climate change, agriculture and energy transitions in Jamaica and the Eastern Caribbean. Jeff has published widely in journals such as *Annals of the American Association of Geographers*, *Area*, *GeoForum*, *Urban Geography* and *Progress in Human Geography*.

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**Helen C.M. Smith** is Lecturer in Offshore Renewable Energy at the University of Exeter, UK, where she contributes to the BEng and MEng Energy Engineering and BSc and MSc Renewable Energy programs. Helen’s primary research area is resource assessment for offshore energy developments, assessing the availability of wave and tidal energy and its spatial and temporal variability. This work provides an important link between the natural environment and the engineering applications required to develop the industry further. A key focus of her research is the application and development of numerical models for both resource prediction and the assessment of potential impacts over wide spatial scales due to energy extraction and conversion by marine energy devices.

**Jamie D. Stephen** is founder and Managing Director of TorchLight Bioresources in Canada, a cleantech and bioproducts consulting and project management company. Jamie is a Fellow at Queen's University and the Program Director of the BioCleantech Forum. His work ranges from enterprise strategy and policy analysis to fuel and conversion technology assessment. Jamie has managed cleantech and bioproduct projects for a variety of public and private sector clients including technology developers, investment funds, national and provincial governments, First Nations, start-ups and Fortune 100 companies. Projects have focused on industrial growth strategies, facility feasibility, technology deployment hurdles and investment prioritization. Jamie holds an MS in Chemical and Biological Engineering and a PhD in Cleantech Economics from the University of British Columbia. He has published numerous reports and papers on bioenergy and bioproduct investment, operating risk and industry advancement.

**Jennie C. Stephens** is Dean’s Professor of Sustainability Science & Policy at Northeastern University’s School of Public Policy & Urban Affairs in Boston, USA. Jennie’s research, teaching and community engagements focus on social and political aspects of the renewable energy transition, reducing reliance on fossil fuels, and strengthening societal resilience by responding to climate change. Her work explores institutional and cultural innovation in the energy sector, including gender diversity and energy democracy,
technological optimism with regard to climate mitigation, and the ‘usability’ of climate science in climate mitigation and adaptation. Jennie is a 2015–16 Leopold Leadership Fellow, and her book *Smart Grid (R)Evolution: Electric Power Struggles* (with Elizabeth J. Wilson and Tarla Rai Peterson, 2015) explores social and cultural debates about energy system change. Before joining Northeastern University, she held the Blittersdorf Professorship at the University of Vermont and was on the faculty at Clark University.

**Robert Stock** is Senior Scholar, retired from the Department of Geography at the University of Winnipeg, Canada. His research has focused on rural development, primarily in relation to environment-society relationships and health care services in Nigeria. Robert has published in journals such as *Social Science & Medicine, International Journal of Health Services* and *Review of African Political Economy*. He is the author of *Africa South of the Sahara: A Geographical Interpretation* (2012), which is in its third edition.

**Sven Stremke** is Associate Professor of Landscape Architecture at Wageningen University and Professor of Landscape Architecture at the Amsterdam Academy of Architecture, the Netherlands, Principal Investigator at the Amsterdam Institute for Advanced Metropolitan Solutions (AMS) and founding Director of the NRGlab, a research laboratory on energy landscapes. His research and teaching focus on the relations between renewable energy technologies and landscapes, both in the rural and urban environment. Sven has published on the planning and design of sustainable energy landscapes in books and journals such as *Environment and Planning B, Landscape Journal, International Journal of Sustainable Building Technology and Urban Design* and *Sustainability*. With Andy van den Dobbelsteen, he edited *Sustainable Energy Landscapes: Designing, Planning, and Development* (2013). Sven conducts research projects for various research agencies, ministries, provincial and regional governments in the Netherlands and other countries. He is member of several scientific committees and supervises PhD students working on the energy-landscape nexus.

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Contributors


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