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Editorial: Energy Justice in the Era of Green Transitions

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Keywords

Energy justice, energy transition, green energy, Renewable Energy, procedural justice, Distributional justice, recognition justice

Contribution to the field

This paper provides the theoretical background on energy justice, and a summary of the contributions of the papers included in this Research Topic.
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The need to rapidly decarbonise our energy systems to address the challenge of climate breakdown is now widely accepted. It is also increasingly recognised that processes of decarbonisation ought to be undertaken in a manner that considers issues of justice and equity (Calver et al., 2022; Knox et al., 2022; Martiskainen et al., 2020). Over the past decade, the concept of ‘energy justice’ has highlighted the multitude of ways that the operation of energy systems—and the ways that they change and evolve—can impact different places and sections of society in decidedly unequal and potentially unjust ways, but that there are also opportunities for energy systems to evolve to be more just and inclusive (Bouzarovski et al., 2017; Jenkins et al., 2016; McCauley et al., 2013; Sovacool et al., 2014; Sovacool and Dworkin, 2015).

This type of research is perhaps more pertinent than ever. The COVID-19 pandemic has highlighted, and arguably intensified, the centrality of energy services to our everyday lives and the functioning of societies (e.g. Carvalho et al., 2021; García et al., 2021; Rouleau and Gosselin, 2021). This Research Topic—Energy Justice in the Era of Green Transitions—seeks to contribute to ongoing research and debates regarding how current ‘green’, or ‘climate neutral’, energy transitions and policies might be causing, or avoiding, injustices, and the potential role such transitions might play in creating a more just society in the future.

In curating this collection of 12 papers, we aimed to include a diverse range of contributions to enable a wide set of voices. While still largely Europe and North America focused, the Research Topic spans the Global North and South as well as the Eastern and Western hemispheres. This highlights the breadth and depth of research into energy justice across all corners of the globe but also, as the collection points out, shows that the experiences of energy injustice remain woefully common across many geographic and social contexts. The contributions come from a mix of established scholars as well as from emerging researchers publishing from their doctoral research, or their first publications. They also come from a range of disciplinary backgrounds, from architecture, environmental studies, geography, political sciences, psychology, and public and urban affairs to name a few. This diversity of disciplinary, geographic and experiential backgrounds is reflected in the varied yet complementary approaches this collection of papers took to addressing the broad topic.

The papers expose a range of energy (in)justice issues, covering the three established tenets of distributional, procedural and recognition justice. Beginning with distributional justice, a key theme in several papers is the unequal ability of different sectors of society to engage with, and benefit from, sustainable energy innovations and policies. Focusing on a case study of Ontario in Canada, Wyse et al. (2021) highlight that, without policy and regulatory intervention, low-carbon innovations bring most benefit to private businesses and more privileged groups, whilst the more marginalised continue to be left behind. Reames (2021) shows that ethnic and racial disparities in domestic solar photovoltaic adoption in the USA cannot be explained solely by differences in resource potential. Rather, such disparities appear to be caused by deeply entrenched socio-economic and racial inequities experienced by communities of colour. Through a case study of Mexico, Molar-Cruz et al. (2021) criticise ‘one-size-fits-all’ energy policies and low-carbon subsidies, arguing that these often have regressive outcomes by most benefitting more affluent sectors of society.

Some of these inequitable outcomes may be long lasting, especially when concerning our built environment. Gower (2021) argues that shortcomings in housing regulation can embed unsustainable design, which in turn increases the energy vulnerability of residents over the long-
term, ultimately entrenching socio-economic and tenure disparities long into the future. Cevheribucak (2021) discusses how, in Turkey, competing ideologies concerning energy transitions create unintended impacts on domestic energy poverty, and argues that any regressive outcomes from energy transition policies should be mitigated to prevent exacerbation of existing socio-economic inequalities. Finally, with a more conceptual take, Grossmann and Trubina (2021) liken the uneven experiences of energy poverty to violations of human dignity.

Several papers in this collection also discuss concerns around procedural injustice, in terms of unfair or undemocratic policymaking processes. Reed et al. (2021) are highly critical of present climate change and energy transition policymaking in Canada. They show that the voices of Indigenous Peoples are not fully included in the design of two major climate change and net-zero strategies, violating the core procedural justice principles of self-determination and informed consent. Si and Stephens (2021) similarly show that low-income households have limited political power and restricted ability to participate in the design of solar energy policies in Massachusetts in the USA, a situation they argue may lead to low-income households failing to benefit from solar technology. This echoes Bal et al.’s (2021) call for the importance of full engagement with social housing residents as part of low-carbon building renovation, if a just and sustainable urban energy transition is to be achieved.

Finally, some papers highlight concerns around recognition justice. This is perhaps most evident in the piece by Feenstra et al. (2021), who argue that the experiences of vulnerable energy consumers are often ‘invisible’ in national policymaking. Similarly, Haarbosch et al. (2021) demonstrate a mismatch between the ‘narratives’ and visions of energy transition policymakers versus those expressed by everyday citizens, with the perspectives of more marginalized citizens barely recognised within dominant policy narratives.

As well as highlighting current and potential injustices, however, what all the papers also make clear is that such inequities are not an inevitable consequence of green energy transitions, but rather can be avoided and/or mitigated by progressive policies and governance choices. Feenstra et al. (2021) argue that, if energy poverty mitigation is fully integrated into energy transitions policy, there is significant potential for both emissions reductions and greater social equity. In short, with political will, energy transitions can be a tool for greater energy justice. Equally, the paper by Pellegrini-Masini et al. (2021) indicates that citizens of more egalitarian societies show more favourable attitudes toward sustainable energy policies—greater justice, in turn, helps facilitate energy transitions.

As scholars, we must endeavour to delve deeper into the details, both qualitatively and quantitatively, to ensure that different sections of our societies—be they social, economic, cultural, locational or otherwise—are able to enjoy the same opportunities to partake in and benefit from continuing green transitions.

References


