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Mapping the Way: Building National Frameworks Supportive of Energy Citizenship

Increased understanding and uptake of energy citizenship¹ has the potential to make an important contribution to advancing the net-zero energy transition. Evidence underscores the diverse ways citizens can participate in individuals through their everyday energy practices contributes to tackling climate change by significantly reducing greenhouse gas emissions worldwide.² Moreover, citizens can play a crucial role in supporting the transition to new energy and climate targets as well as ensuring a just energy transition in terms of procedural and distributional justice.

This energy citizenship agenda is an important component of the broader energy transition. Civic investments in the energy realm manifests primarily in three ways: a) altering individual energy consumption practices, such as reducing energy usage and switching to more energy-efficient technologies; b) generating personal energy, including participation in energy communities; and c) participating directly in energy governance, including community energy.

KEY POINTS

- Energy citizenship is a **powerful vehicle for energy system transformation** to the point of bringing about systemic change.
- Active public participation in energy systems is **critical for professionalism** in many European countries, especially in terms of the **social acceptance** of energy projects.
- Citizens can participate in the energy transition through various activities **full short of inclusivity and diversity**. There also the problem of **power asymmetries** in energy governance.
- Certain socio-economic and political groups, such as **women, low-income individuals, ethnic minorities and migrants are often not involved** in energy transition processes.
- **Ensuring inclusive and participatory national frameworks** on energy-related issues is essential to advancing energy citizenship.
- It is crucial to implement **holistic approaches to gender equality and gender justice** in the energy transition, which means **addressing the root causes of inequalities** affecting women in their roles in the energy transition.
- Future policies should aim to **enhance citizens' perceived capacity to act** by **promoting successful citizen-driven initiatives** and **provide practical information about promising practices**.

Devising Legal and Regulatory Frameworks Conducive to Energy Citizenship

The significance of the concept of energy citizenship in political and academic discourses is on the rise. Although the term is relatively new, the practices it encompasses have existed for decades. Many countries have a long history of citizens participating in energy governance. Legal and regulatory frameworks are fundamental to enabling public participation in energy systems as they determine the ways in which citizens can participate, including whether they can engage in generate energy individually or collectively, and if they can be involved in political processes through mechanisms for public participation, consultation, and decision-making.

The EU acquis directly affects the legal and policy context in Austria, Bulgaria, Germany, Greece and Poland, and also has a strong influence on the Netherlands, Norway, Switzerland and Turkey. Placing citizens at the centre of the energy transition, the Clean Energy for all Europeans Package (CEP) is becoming the core of the acquis in the energy sector.³ The CEP, which was finalised in the 119th session, 'Renewable energy self-consumers,' citizen energy communities, and the Electricity Regulation and Directive (2019/944) in 2019, is the first EU legislation that introduced a definition of citizen energy communities. By emphasising the importance of environmental, economic and social community benefits over financial profits, the CEP's definition of energy communities brings to the fore the role of energy communities as social actors.

While promoting a general framework, the CEP also gives Member States considerable leeway in transposing its provisions into national law. This means that the EU has created a wide variety of legal and regulatory formulations across the EU.⁴ In the studied eight countries, there are various narratives and norms in the material energy sector, which can be conducive to or a barrier to facilitating the energy transition, supporting citizen agency, ensuring inclusiveness, and setting social boundaries. Below, we list the applies to the energy provisions shaping the context for collective citizen-driven initiatives, including energy communities.

Comparative Insights on the Legal Settings for Energy Citizenship Initiatives

Energy communities play an essential role in creating citizens-toward-using renewable energy sources to advance energy efficiency and reduce the country's carbon footprint. Although the term is relatively new, as well as discursively more prominent in some of the examined countries (such as Germany, Greece and Switzerland), there are also a variety of practices that energy communities are set in the early stages of development.⁵ Research shows that the relevance of energy communities to the aggregation sector, and the ability to engage with the wholesale and retail energy markets, is also dependent on the socio-economic culture and other factors in a country.⁶ Energy communities are also a relatively new concept in Bulgaria, and there is a prominent role in the energy transition in terms of installed capacity of renewable energy generation.

The models of RECs and CECs have been legally implemented in Austria, Germany, Greece and Poland. In Austria, Germany and Poland, RECs and CECs have been established and developed through the uptake of significant economic incentives.⁷ In the context of RECs and the implementation of the Directive's criteria,⁸ in Italy, recent legislation has eased the requirements for REC installations, thereby making it easier to form and connect to the grid. In the Netherlands, Greece, while an enabling regulatory framework for RECs exists overall and RECs have been established, there are still barriers to their development, such as complex licensing procedures and limited support for energy communities.⁹ In Switzerland, there is no legal framework for decentralised energy generation and consumption by private actors for enabled and encouraged an increasing number of energy communities.¹⁰ In Bulgaria, there is no legal framework that might to be addressed to include the need to provide financial support to energy communities with non-profit character and energy communities in socially vulnerable areas, which could be one of the most prominent regional disparities in the geographical concentration of energy communities.¹¹

In Bulgaria, although there is a formal transposition of the legal and regulatory framework set by the RED II,¹² energy citizenship is not specifically addressed in the context of the national energy and climate policies. The role of citizens and citizen collectives in the energy market is limited to the role of consumers, and there is no legal framework for energy communities. Legislative acts and other relevant documents do not mention energy communities in the context of production, consumption and storage encounter multiple challenges and uncertainties, including complex licensing procedures and administrative requirements, as well as bureaucratic issues and absence of institutional support for planning, deployment and monitoring.¹³

Turning to the Dutch approaches, a comprehensive framework for energy communities is absent in the regulation and spillover effects from the European energy market affect all three states, although to different degrees. The Dutch energy market is relatively open and competitive, and has the most significant e-fluency, and relatively more limited in Switzerland and Türkiye. Switzerland's energy market is relatively open and competitive, and has the most significant e-fluency, and relatively more limited in Türkiye. Switzerland's energy market is relatively open and competitive, and has the most significant e-fluency, and relatively more limited in Türkiye. The EU acquis also indirectly influences the Norwegian context by impacting the European energy market, which is a strong political context and has the most significant e-fluency, and relatively more limited in Türkiye. Switzerland's energy market is relatively open and competitive,