

Energy Citizenship– Transdisciplinary Conceptualization and Scale Development



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What is Energy Citizenship?

- Energy Citizenship is about active participation and involvement of citizens in the energy sector
- Energy citizens are more than passive energy consumers, they can be actively involved in the sustainable energy transition



Why is Energy Citizenship important?

- Private households and (public) transportation make up more than half of the energy consumption in the EU
- Citizens are major stakeholders and actors in the energy transition
- The European Union relies on active citizen involvement to achieve its sustainability goals

Energy Citizenship Definition

- We have formulated an interdisciplinary definition of energy citizenship with experts from law, psychology and economics
- Our interdisciplinary definition of energy citizenship builds the foundation for discipline – specific definitions
- Based on this definition, we are developing a psychological scale



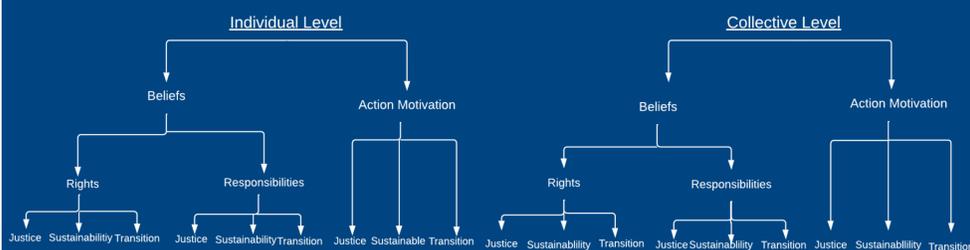
EC²- Project

- "EC² - Energy Citizenship and Energy Communities for a Sustainable Energy Transition" is a European Horizon 2020 funded project
- It involves 14 partners from 6 countries
- EC² will provide answers on how to facilitate and strengthen energy citizenship

"Energy citizenship is people's rights to and responsibilities for a just and sustainable energy transition."

Energy Citizenship Scale Development

- Based on the definition we created the structure shown below which we used to generate an item pool of 218 items covering all relevant aspects of energy citizenship



- The item pool was pre tested for understandability
- Items were then revised and cut down to 54 items which were tested again in a second study
- The best fitting item per sub category of the structure was selected by means of factor analysis

Energy Citizenship Scale

- Two identical nine item energy citizenship scales (one individual level scale and one collective level scale) were the final product

	Factor loading			
	1	Community	Mean	Standard Deviation
I consider affordable sustainable energy to be an important right.	0.58	0.71	4.26	0.76
I consider it an important right to be informed about the energy efficiency of various products.	0.60	0.65	4.22	0.78
I consider being able to actively participate in the energy market (e.g., being able to produce / sell / exchange / store energy) to be an important right.	0.71	0.51	3.88	0.90
I see it as my responsibility to help others to participate in the sustainable energy transition (e.g., by sharing my knowledge).	0.70	0.49	3.56	0.96
I see it as my responsibility to contribute towards a sustainable energy transition.	0.71	0.53	3.90	0.83
I see it as my responsibility to actively participate in the energy market (e.g., produce / sell / exchange / store energy).	0.73	0.63	3.33	1.08
I am willing to play an active role in ensuring that no one is at a disadvantage during the sustainable energy transition.	0.73	0.59	3.48	0.97
Investing time, effort, and money to be able to use more renewable energy is a source of pride for me.	0.65	0.50	3.16	1.03
I am open to helping to influence energy policy and legislation.	0.63	0.60	3.49	0.90

