Co-funded by the Horizon 2020 programme
of the European Union

ODYSSEE-MURE

First meeting of the project *"ODYSSEE-MURE, Monitoring EU Energy Efficiency First Principle and Policy Implementation"*
16-18 December 2019, Berlin, Germany

Sufficiency and the EE1 principle

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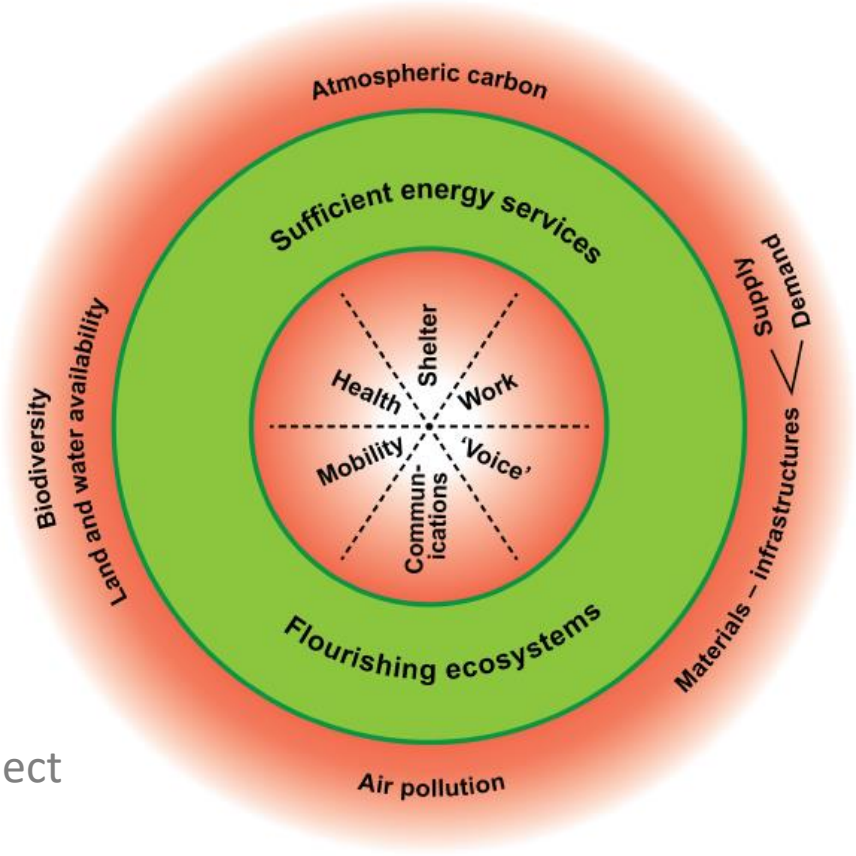
General definition of energy sufficiency

Definition of the eceee's energy sufficiency project:

"Energy sufficiency is a state in which people's basic needs for energy services are met equitably and ecological limits are respected."

The energy sufficiency doughnut:



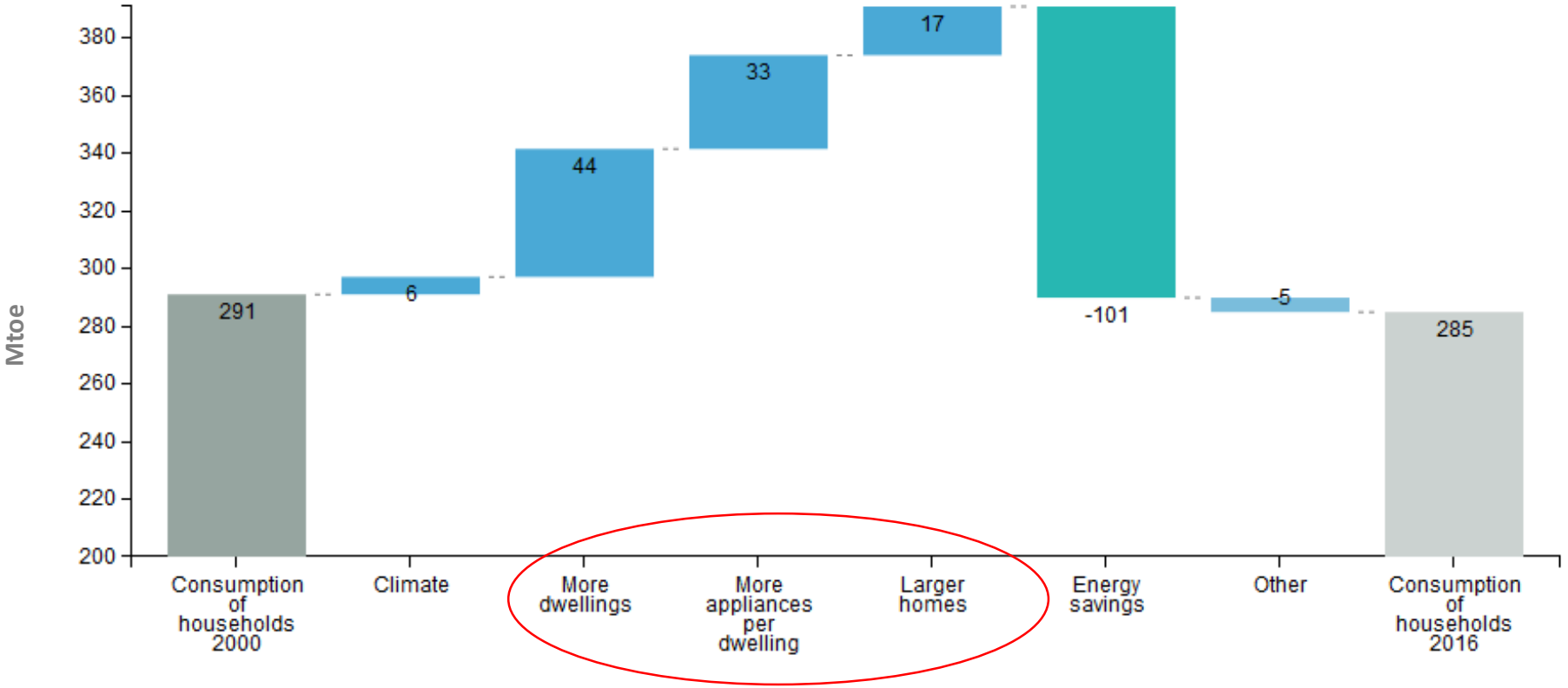
Source: eceee's energy sufficiency project
https://www.energysufficiency.org/

Societal Trends with relevance for energy sufficiency

Cluster	Trend
Digitalisation of Life	Human Machine / Shift towards smart products and services
New Social and Economic Models	Sharing Economy
	Prosumer
	Awareness (of personal footprint)
	Social Disparities / Energy Poverty
	New forms of funding - Public spending towards greener and more efficient options
Industrial Transformation	Reindustrialisation
	Circular Economy - new requirements for material flows for consumer goods
	Decarbonization of the Industry
Quality of Life	Increasing importance of health (e.g. air quality, noise, heat)
	Regionalisation - Urban governance solving global challenges locally in cities
	Urbanisation - Global trend towards larger shares of the population living in cities

Source: Brugger, Eichhammer & Dönitz (2019): Study on Energy Savings Scenarios 2050
https://www.isi.fraunhofer.de/de/competence-center/energiepolitik-energiemaerkte/projekte/energy-saving-scenarios-2050.html

Why are sufficiency issues important? Variation of EU household consumption (2000-2016, Mtoe)



Source: ODYSSEE

Stronger integration of sufficiency issues in ODYSSEE

Identification / Quantification of important trends by sector that lead to an increase in energy demand and thereby counter-act energy sufficiency

Some trends are already covered by indicators:

- HH: larger homes, more appliances per dwelling.....
- Transport: more person & freight km, modal shift towards public transports.....

Further indicators could be added (examples):

- Indicators for a shared economy (e.g. UBER, Lyft, AirBnB, Car sharing)
- Transport: Further indicators for modal shift (e.g. biking, walking)
- Indicators for digitalization (building automation, interconnection of appliances)
- Industry: indicators for a circular economy and/or low-carbon industry

Stronger integration of sufficiency issues in MURE

Based on the trends identified in ODYSSEE, energy sufficiency policies will be identified and classified which are related to these trends.

Current status in MURE:

- No identifiers for sufficiency polices implemented in MURE yet

Possible approach in MURE:

- Suitable classification of energy efficiency policies related to sufficiency (based on eceee's sufficiency project)
- This classification will be integrated into the MURE database → maybe some additional energy sufficiency policies can be integrated in MURE

Examples for policies to promote energy sufficiency in buildings

	Administrative	Economic	Informational
National	- adjusting requirements for minimum dwelling size - centralized cap for energy consumption - centralized cap for existing and new living space - moratorium or cap for soil sealing - obligations for bicycle facilities - take back obligations for buildings	- energy sufficiency funds - property taxation - sufficiency requirements for public loans - tax free basic amount of energy provision	- establishment and financial support for sufficiency consultancy - obligation to report vacancies
Local/regional	- Commerce-free public space - Obligatory bicycle lanes	- local investment funds restricted to citizens of the municipality	Cost free access to municipal sufficiency consultancy, (one stop shop) providing - living space advice, - practical support for moving, - access to financial support

Source: Lorek, Sylvia and Joachim H Spangenberg (2019). Identification of promising instruments and instrument mixes to promote energy sufficiency. EUFORIE - European Futures for Energy Efficiency.