

Heterogeneity of the fuel poor in Poland — quantification and policy implications

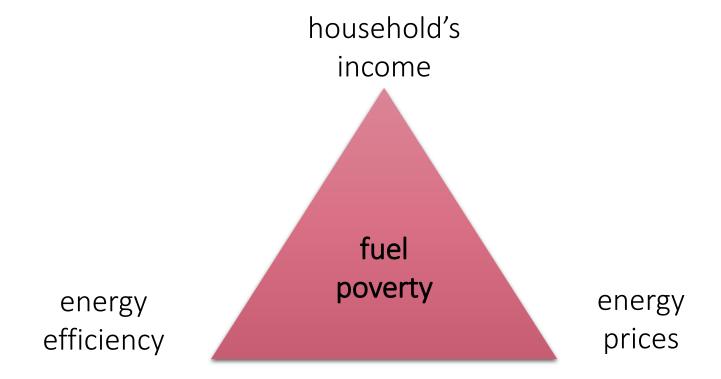
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Agenda

- 1. What is fuel poverty?
- 2. How we measure it?
- 3. Research question
- 4. Method
- 5. Results

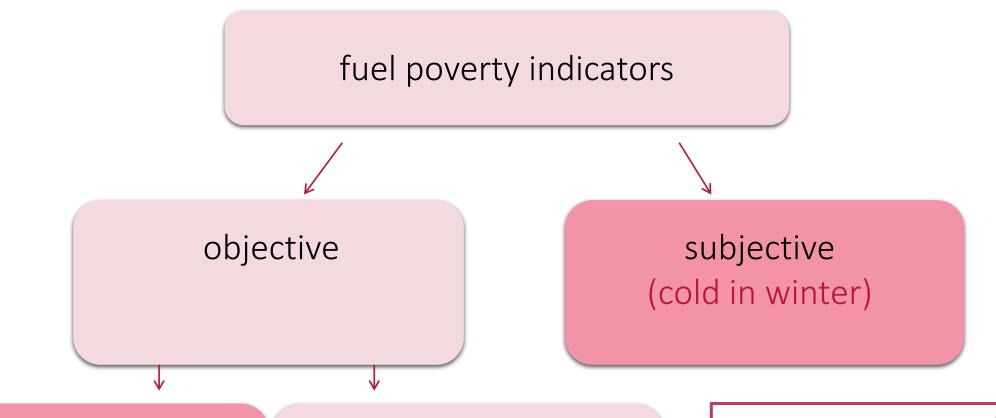
What is fuel poverty?

Fuel poor household - one that cannot afford an adequate level of energy services at home, particularly warmth, at reasonable cost.



How to measure fuel poverty?





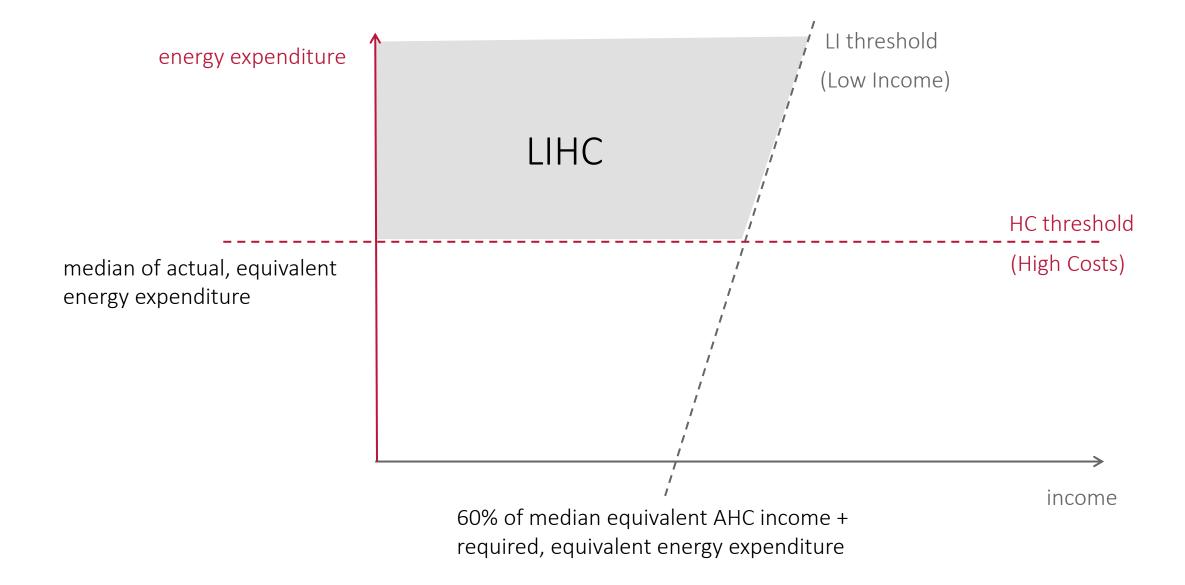
relative (Low Income High Costs) absolute ('10%')

Data:

Polish Household Budget Survey 2014 approx. 37 thous. observations

Low Income High Costs (LIHC) indicator





Research question



The fuel poor in Poland – who are they?

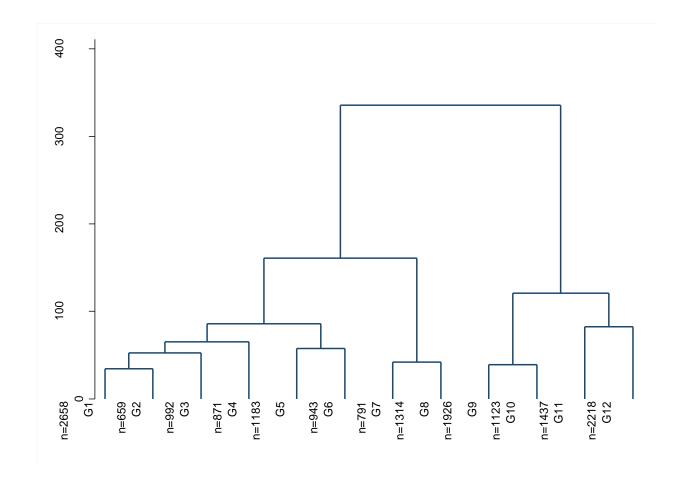
- single HH? Big families?
- cities? rural areas?
- dwellings' characteristics?
- habits?

Cluster analysis

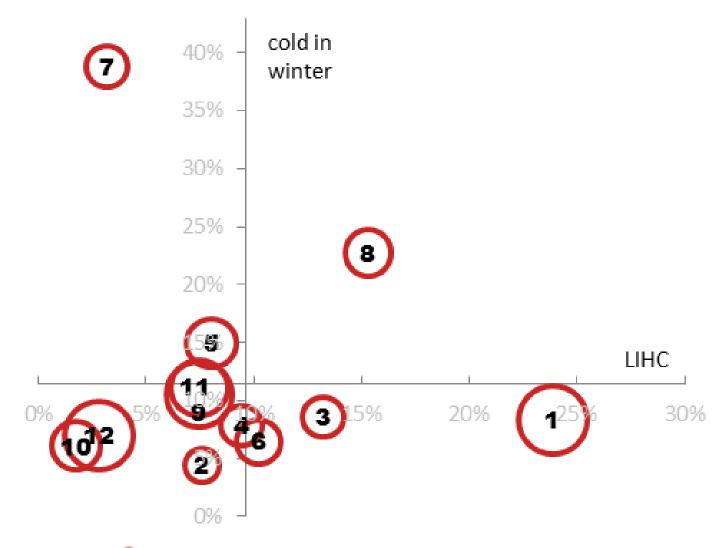
The variables covered:

- energy efficiency
- expenditure on heat
- expenditure on electricity
- income
- consumption

Altogether 22 variables



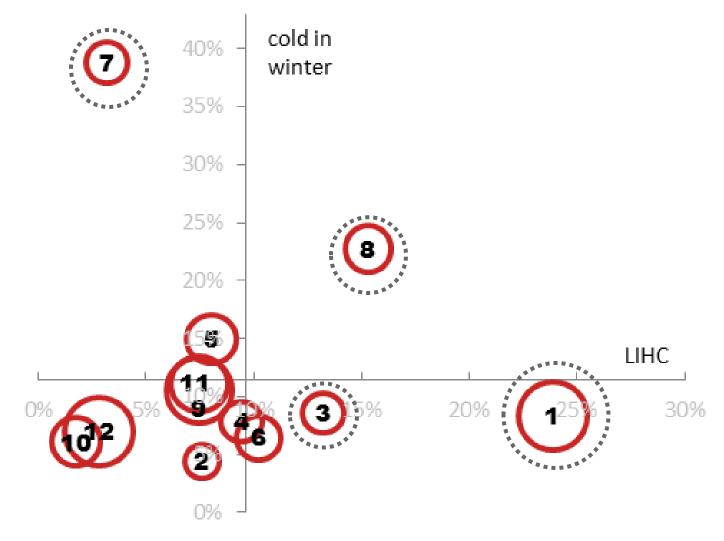
6 fuel poor clusters – according to at least one indicator



Percentage of each type in subjectively poor households



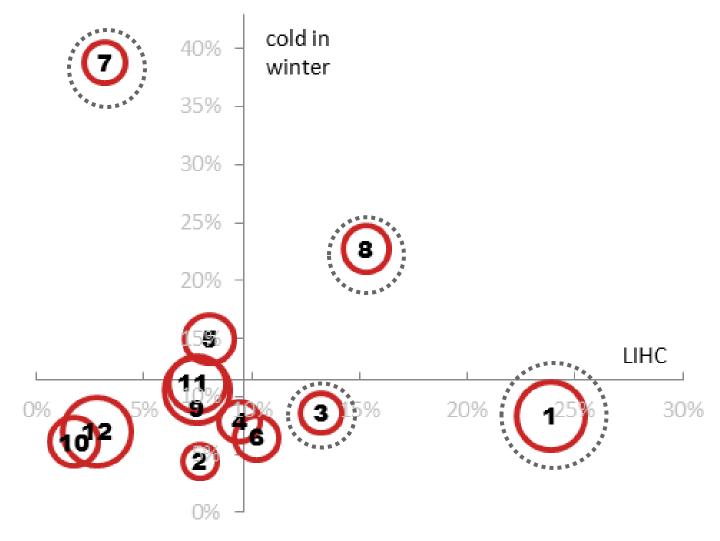
- type 7 income poor inhabitants of old, pre-war tenement houses
- dwellings to small for their needs (25%)
- municipal properties (49%)
- solid fuel stoves (92%)



Percentage of each type in subjectively poor households



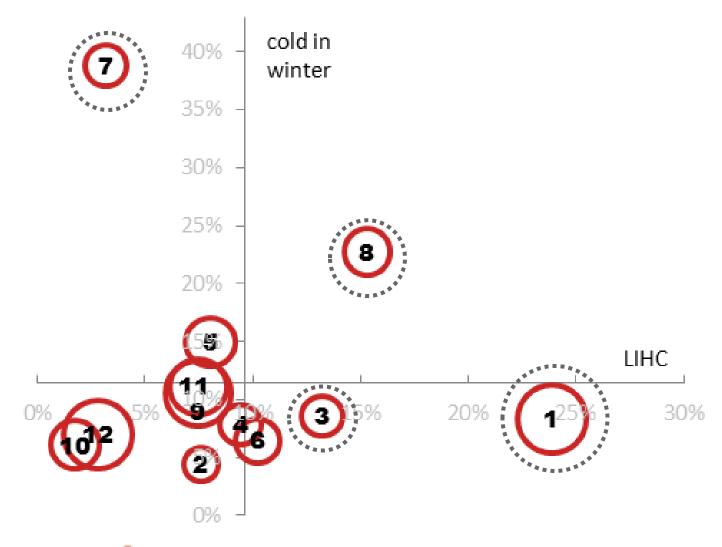
- type 8 income poor inhabitants of old detached houses located in rural areas
- lack of toiled flushed with running water (25%)
- solid fuel stoves (96%)



Percentage of each type in subjectively poor households



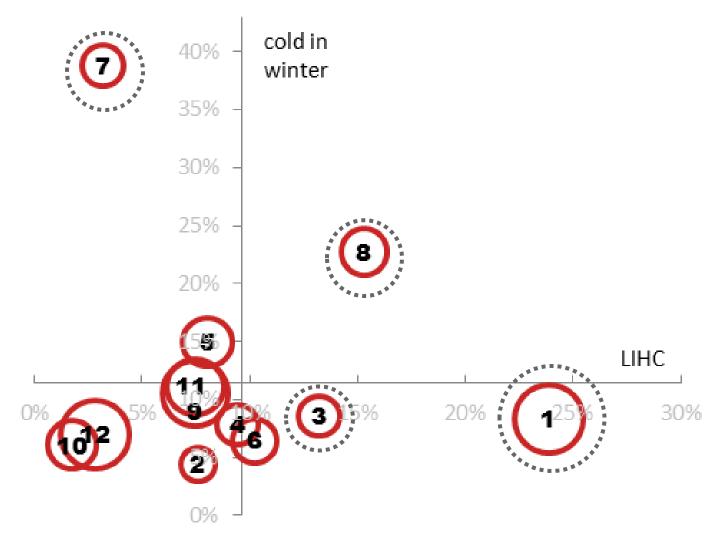
- type 1— families with children living in big detached houses in rural areas and in towns
- large floor area (110 m² on average)



Percentage of each type in subjectively poor households



- type 3 single elderly persons living in big detached houses in rural areas
- retirees (98%)
- large floor area per person (53 m² on average)



Percentage of each type in subjectively poor households





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