Energy-saving-check It's simple; fast; efficient! Count me in!



Policies and measures to address energy poverty in Germany REACH conference at Ljubljana Barbara Kalker for Caritas Germany, January 19<sup>th</sup>, 2017

Gefördert durch:

Ein Verbundprojekt von:

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Bundesministerium für Umwelt, Naturschutz, Bau und Reaktorsicherheit



aufgrund eines Beschlusses des Deutschen Bundestages

## **Overview**

- Introduction to Energy Poverty in general
- Energy Poverty in Germany
- Examples, Ideas, Concepts and Projects
- Examples of energy saving projects for low income households in Germany
- Energy-Saving-Check in Cooperation with Local Authorities – Households with low incomes for climate protection
- Demands and Conclusions



# There is no agreed EU wide definition commonly agreed upon.

A working definition widely used:

Energy poverty occurs when a household cannot afford their energy/electricity bill and/or keep their flat/house adequately warm at reasonable cost.

It is often estimated that in energy poor households energy bills exceed 10% of the household's income.



## Introduction to Energy Poverty in general – Energy Poverty Development

Energy Poverty develops from a mix of social, energy and housing problems...



- lack of financial resources to invest in energy efficient technology
- little knowlegde in lowincome households on the possibilities to save energy
- lack of information inside target group



## Introduction Energy Poverty in general –

**Consequences of Energy Poverty** 



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# **Energy poverty in Germany**

- In Germany **7,7 Million** people receive social welfare benefits
- Energy debts become relevant to an increasing number of people through rising energy prices
- In 2014 **350,000**\* households in Germany were hit by power cut-offs
- Energy cut-offs followed by high connection costs enhance the spiral of indebtedness and poverty
- Energy cut-offs intensify poverty and social isolation
  - Health impairment
  - Existential impairment of everyday life
  - Shame and exclusion
- the burden caused by the exit from nuclear an fossil-fuel energy is higher on low-income households than on other households – higher energy prices an less possibilities to substitute

\* Bundesnetzagentur, as of Jan 17<sup>th</sup> 2017





Households receiving low wages	Households receiving Social Transfers
Income is too low to make a living above the poverty line but not low enough to receive social transfers.	<ul> <li>Basic housing costs are taken care of, but grants for energy are often not sufficient.</li> <li>(7.7 mio. people*: Job Seeker Allowance, Social Care for people not able to work, Housing Allowance)</li> </ul>

\* Caritas Energy Savings Project has since 2008 reached about 3% of the complete target group



# Examples ideas, concepts and projects to support energy poor households in Germany

Federal Social Support System	<ul> <li>Expenses for housing and heating are covered by transfers by municipality and the federal state</li> <li>Expenses for electricity are calculated into social transfers</li> </ul>
e.on Bavaria	<ul> <li>Monthly reductions of payment to authorized households</li> <li>Lotteries for efficient electronical devices</li> <li>Cooperation of e.on with welfare associations</li> </ul>
City of Bielefeld	<ul> <li>Admitting higher housing costs per m<sup>2</sup> for social transfer households</li> <li>m<sup>2</sup>-prices allowed relate to energy efficiency of the flat         <ul> <li>enables households in social transfer to move into energy-efficient housing</li> <li>metivates owners to "upgrate" their property</li> </ul> </li> </ul>
7	<ul> <li>motivates owners to "upgrate" their property</li> </ul>

# Examples ideas, concepts and projects to support energy poor households in Germany

Power Saving Initiative (ONLINE)	<ul> <li>Offers online self-checks</li> </ul>
Energy Saving Projects (by different actors)	<ul> <li>Support and consulting</li> <li>Offer information</li> <li>Create awareness</li> <li>Offer devices</li> <li>Examples: Energy-Saving-Project by Caritas</li> <li>Germany, Basic-Check-Consultancy by the</li> <li>Consumer Association</li> </ul>
Smart Metering	<ul> <li>Warning when consumption is too high</li> <li>Limiting consumption to a (affordable) maximum</li> <li>Avoiding cut-offs</li> </ul>



Prepaid Electricity	0	Creating more awareness
Meter	0	Avoiding cut-offs
Mini Conctracting for	0	Federal, state or community level
exchange of	0	In some cases offered by energy companies
refrigerators	0	Helps households to invest in an efficient
		refrigerator and pay off by savings
<b>Programs that support</b>	0	Programs that support energy efficient
energy efficient		modernization of housing and make it
modernization of		available to low income households
housing		



"Primary services like energy, gas and heating belong to the basic requirements for living and social participation."

Social Transfers and support systems are relevant, BUT...:

- the calculated amount contained in social transfer is not sufficient to cover energy costs (PLUS: old devices, lack of information about savings, longer hours at home)
- short-term and high price changes in energy are not considered within the social welfare system
- energy cut-offs have to be avoided, if not terminated
- in case of higher needs (e.g. electrical heating of water or highly inefficient housing conditions) the extra rate paid does on average not pay for the actual higher costs

# Energy Saving Check in Cooperation with Local Authorities – Low-Income Households protect Climate and Environment

- is a nationwide project, that helps people with low income to reduce their energy consumption and to save money through advisory services and installing free energy saving devices
- is a cooperative project of the German Caritas Association (DCV) and the German Federal Association of Energy and Climate Protection Agencies (eaD)
- is part of the National Climate Initiative of the German Federal Ministry for Environment, Nature Conservation and Nuclear Safety
- started in 2008 and now takes place from April 2016 March 2019 (project phase VII)

Caritas Cal Bundesverband der Energie- und Klimaschutzagenturen

Deutschlands e.V.

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# How the Energy-Saving-Project Works

#### **Application**

• The low-income household contacts the local project-site to make an appointment

#### 1st appointment

- · Check of the equipment
- Check of the bills (if available)
- Assessment of the consumer's behaviour

#### **Evaluation**

- Evaluation of the individual data
- Conception of the recommendation and the report

#### 2nd appointment

- Free installation of easy to use energy saving devices. Value: 70 € on average
- Handout report and advice on change in behaviour to further save energy and water
- Delivery of the € 150 voucher for a new A+++ cooling device

# The Energy-Saving-Project and its Four Important Policy Areas





#### 241192 households consulted

Decline of carbon dioxide-emission: 429,857 t

Savings per household in %: 12 - 15

Annual savings **per household** in €:







#### **Energy Saving Check Municipal – Fridge Exchange Programme** (State 12/31/16)

Introduced because potential of savings was estimated to double the calculated results - confirmed

- 150,- € voucher for low income households to change their old fridge with an A+++ fridge
- Requirements:
  - Old fridge older than ten years
  - The exchange will generate more 200 kWh savings per year
- Results:



# **Results Monitoring – Electricity savings (12/31/16)**

Comparison of forecast and achieved saving after 3rd household visit, nationwide (2958 households)



Savings make up **16 %** of the consumption of one year per household (average values)



# **Results Monitoring – Water savings (12/31/16)**

# Comparison of forecast and achieved saving after 3rd household visit, nationwide (1035 households)



Forecast of savings after first an 2nd consultation
Achieved savings after 3rd consultation



Savings make up **16 %** of the consumption of one year per household (Average values)



## **Demands and Conclusions**

- define "Energy Poverty" to allow better research (the database of more than 240.000 households could serve as a sufficient empirical basis)
- offer cost-free consulting on energy saving for all low-income households
- organize Round Tables between energy suppliers, job agencies, consumer protectors and welfare associatons to avoid power cut offs
- no cut-offs if certain social indicators apply, (e.g. age, sickness, children, handicaps, pregnancy)
- improve energy efficiency (devices and energy efficient housing)
- reform basic energy supply

   (e.g. cut offs not below debt of 1.000 €)



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• no assignment of **prepaid cards** at higher energy prices

# Thank you for your attention!

For further information visit:

www.stromspar-check.de



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