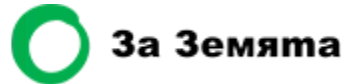


Clean Energy for People

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Climate change and energy renovation

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Climate Change & Building Renovation

- 2019 EU Green Deal (approved in 2020) – package of policy initiatives:
 - Green Transition in EU
 - Climate Neutrality by 2050
- 2020 Renovation Wave Strategy:
 - 2020 – 2030 speedy increasing of the renovation rates
 - 35 mil buildings renovated by 2030
- 2021 'Fit for 55' Package:
 - To bring into line EU level laws with EU level climate goals
- EPBD Recast (Energy Performance of Buildings Directive) - 2018 (Directive 2018/844/EU) – Currently in revision
- EED (Energy Efficiency Directive) – Currently in revision
- RePower EU plan

Climate Change & Building Renovation

Why:

- 100 000 deaths per year
- 194 bil burden on public healthcare
- 1/3 of the annual greenhouse gas emissions
- 50 mil Europeans lives in energy poverty

What is needed:

- At least 3% deep renovation rate of buildings
- Minimum energy performance standards of existing buildings to promote increased of speed and deep retrofit
- Adequate finance and fundings
- Prioritize low-income households

Benefits:

- 291 bil euros in environmental & social savings & economic benefits
- 7 mil Europeans lifted out of energy poverty every year
- 160 000 new jobs lifted out of energy poverty
- Decent, energy efficient housing for all Europeans



Building Renovation in Bulgaria

- 4.2% of the multifamily building (MFB) stock in Bulgaria is renovated in the last 14 years
- 64 056 multifamily buildings are to be renovated
- 100% grant aid
- The renovation process is coordinated by the municipalities
- Procedure for proof of energy savings – only on paper

Building Renovation

National long term renovation strategy goals (LTRS)

- 2021-2030 | 19 026 655 m² | MFB
- 2031-2040 | 43 735 175 m² | MFB
- 2041-2050 | 48 343 297 m² | MFB

National recovery and resilience plan (NRRP)

- 1135 of 64 056 buildings = 1.77% MFB
- 200 years to renovate all buildings in Bulgaria with current temps
- Plan to move to 20% co-financing for part of the projects from 2023
- No renovation of single dwellings
- Tiny budget for residential RES

Shallow recovery for Bulgarian buildings stock



Bulgaria needs to renovate its buildings



Recovery measures not enough to meet energy efficiency and renovation targets



Lack of clear roadmaps, strategies, supporting reforms



Energy Poverty

Energy Poverty Definition – expected soon - since 2015

- 27.5% of households are unable to maintain adequate heat levels in their homes during the heating season |2020|
- 333 th. households receive energy subsidies from the state in the form of firewood or direct money transfer
- Lack of a coherent policy to tackle the problem

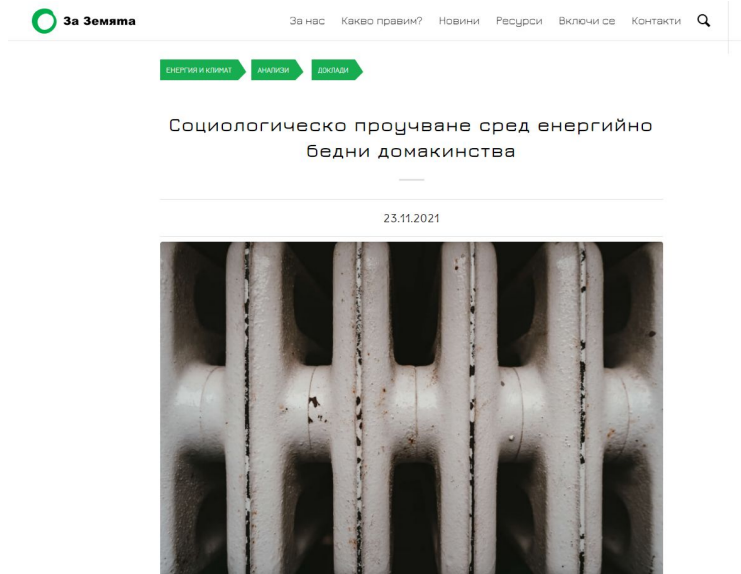
50% of the country's population is virtually left without any opportunity for state support to increase energy efficiency (Single family dwellings)



Sociological study | 2021 |

Main conclusions:

- The majority of energy-poor households use firewood as their preferred heating method, mainly for economic reasons
- Roma and elderly households are the most reluctant to change their current heating system
- Young households are positive about the new green low-carbon heating technologies
- Overcoming the information deficit combined with improving the bureaucratic procedure, would significantly improve the process of providing energy aid
- The idea of free energy consultations in the form of the planned reform "one-stop shop" is perceived extremely positively
- The energy aid to include more recipients, even at the cost of less funds provided to the household. The option of self-participation can be set for everyone except the extremely poor.



Biomass

Sofia municipality signs 7.2 mln euro heating devices delivery deal with four local cos, tie-up

SOFIA (Bulgaria), November 17 (SeeNews) - The Sofia municipality said on Wednesday that it has signed a heating devices delivery contract worth some 14 million leva (\$8.1 million/7.2 million euro) with Bulgarian companies Clima Injenering 2016, Smart Business Company, Tempex and Vikso, as well as the EUROTOP consortium.

Under the terms of the deal, the companies and the tie-up are to deliver, install, commission, as well as provide warranty service for domestic heating devices powered by pellets, natural gas and electricity for households within the municipality, the contracting authority said in a notice to the public procurement agency.



Black wooden pellets Source: Arbaflame

The deal is financed with EU funds under the Environment 2014-2020 operational programme.