

Title of the proposed paper

Share of the different types of biomass in Slovakia and their current shares in total energy mix.

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Text abstract (max. 300 words)

Annual utilisable biomass potential in Slovakia according to the data of the Slovak Ministry of Economy amounts to 75 PJ which is almost 49% of total technically utilisable potential for all renewable energy sources.

Approximately 29% of the utilisable biomass potential is various waste from the wood-processing industry and 17% forest biomass. At the same time of the total potential of biomass in Slovakia, at present less than 20% is utilised. Biomass currently covers approximately 1-1.5% of energy consumption from primary sources in Slovakia while present estimates of technically utilisable biomass potential claim as much as 4.5%. According to projections in Slovak climatic conditions, the real achievable share of biomass is even as much as 6 to 12% of total energy consumption mainly at the regional and local levels.

Waste biomass for heat production is used to most significant extent by the wood-processing industry but even for the branch, biomass only accounts for a small fraction of energy consumption. Biomass from agriculture except the small production output of biodiesel

and five biogas production plants (in addition to biogas from sewage treatment plants) practically is not utilised at all in Slovakia even despite the fact that there are several successful examples of the use of biofuels in Slovakia, specifically wood, biogas and biodiesel. Their low count and the amount energy produced with these sources fail to reach the existing potential by a wide margin. In addition, there is a complete lack of utilisation of straw or fast-growing energy crops including woody crops.