

**BIOMASSZA ENERGETIKAI CÉLÚ HASZNOSÍTÁSÁNAK  
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**ABSTRACT – Utilization possibilities of biomass for energy purposes**

Hungary is in a good position considering geographical and natural conditions. Renewable energy sources – continuing the tradition for centuries – play a significant role in the safe satisfaction of the country's energy supply. The utilization possibilities of various renewable energy sources – water energy, solar energy, wind energy, geothermal energy, biomass – depend on the quantity of sources, regularity and frequency of availability, storage possibilities, and the utilization's economic conditions. The increase of the expected renewable energy sources' percentage for utilization is needed with our intention concerning the EU-accession. The reduction of CO<sub>2</sub> equivalence, which has been undertaken by the Climate Change Conciliation, infers the major increase of renewable energy sources.

As the fossil energy source stocks had swiftly fallen, mitigation of atmosphere's pollution's damages require the greater taking of renewable and environmentally sound energy sources in the energy production and usage. Among renewable energy sources it is the biomass which can be produced and utilized almost unlimitedly.

Considering the correspondences about the European Union, in this article we will present which raw materials – woody and herbaceous energy crops and arable by-products – can be used from biomass. Biomass means those organic matters that have significant chemical energy content in a raw or processed forms as well, and in a processed form it can be turned to electricity, fuel or heat. I made an optimal estimate for the various raw materials' energy yields during processing.

**Kulcsszavak:** biomassza, megújuló energia, energetikai faültetvények, gazdaságosság, jövedelmezőség