

The thesis is focused on energetic utilisation of biomass. It was used a qualitative research and document analysis of articles. The first part deals with the theoretical framework, therefore definitions and possibilities of biomass utilisation. The second part contains methodology, follows research and its evaluation. The first aim of this thesis is to summarize the utilisation of biomass as renewable energy and to distinguish positive and negative impacts of the utilisation of this source and evaluate its economic efficiency. There are several possibilities of utilisation of biomass, but it is necessary to select the suitable process and its utilisation. Based on the large number of examples from life it can be stated that it is economically efficient. The second aim is to identify main misconceptions related to utilisation of biomass. The main misconception is comparing the utilisation of solar energy, which has not left positive attitude of people to renewable energy, with utilisation of biomass. There are few examples of comparing photovoltaic with utilisation of biomass on the same level. In regard of the basic principles of utilisation of biomass, those two sources cannot be compared at all, they are not similar. Another misconception is apprehension of appropriation of land used for growing energy plants instead of growing groceries. When it is chosen a suitable process and its utilisation, is this renewable energy highly suitable for utilisation in the Czech Republic.