

## **Transferable strategies for ecologically compatible biomass farming on a regional level – a case study of the regions of Ostprignitz-Ruppin/Brandenburg and Chiemgau/Bavaria**

Since the 1990s there is a consistent increase of farming biomass for energy recovery as well as material recycling. Previous research projects proofed that there is enormous potential in arable lands and grasslands.

It is a challenge for nature and environment conservation to meet the rising pressure of biomass farming constructively. There is still a lack of knowledge for a broad assessment of the potential conflicts as well as synergies between biomass farming and nature conservation. However this knowledge will be essential for an ecologically optimised development of biomass farming.

The projects intention is to enhance the production of biomass on the level of a region (Landkreis) under a special consideration of the needs and aims of nature conservation. Taking in account the specific functions of the ecosystem for a specific location is part of the strategy besides economic and energetic considerations.

Additionally recommendations are prepared for an environmental friendly biomass farming for two different counties - Chiemgau/ Bavaria und Ostprignitz-Ruppin/ Brandenburg. The recommendations are made in a transferable manner so the results and project-output can be used in other regions too.

Therefore potential conflicts are minimized by an improvement of spatial distribution of landuse as well as the adaption of different classes of landuse to their specific location. By performing an analysis of the ecosystem and an evaluation of the biomass potentials the specific conflicts and synergies of biomass farming can be shown in a Geographical Information System (ArcGIS).

By creating different scenarios in particular recommendations can be made for sustainable landuse planing and their ecologic and economic impacts can be shown.

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