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Regional Map of Forest Biomass Potentials

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1 Introduction

a) Data collection procedure

The data was collected via literature research in the internet. Some information has been double checked with the affected municipalities. The most important source for data is the Bundesforschungszentrum für Wald (BFW; "Federal Forest Research Center").

b) Sources of data available used

BFW is inter alia responsible for the Austrian forest inventory, which is performed on behalf of the Federal Ministry of Agriculture, Forestry, Environment and Water Management (BMLFUW) and regulated by the Austrian Forestry Law.

Data used from the BFW are standing wood in forests in the municipalities per hectare as well as total forested area per municipality.

The theoretical and sustainable rate of additional mobilization of wood for energy applications in the forests of Salzburg was defined by literature search.

c) Calculation method adopted

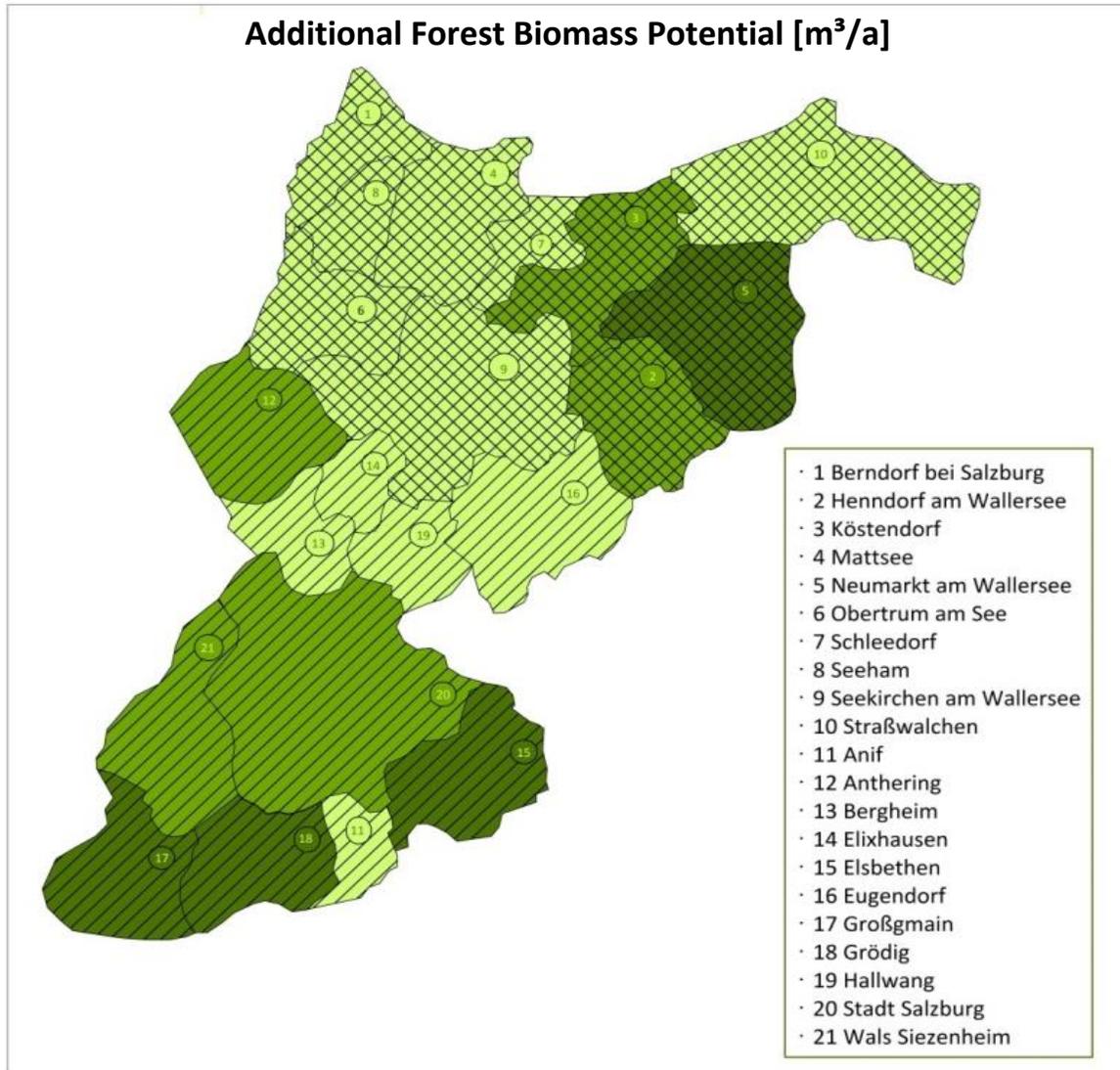
The map shows the annual, additionally and sustainably usable forest biomass potential for energetic applications in the 21 municipalities under study.

Based on literature data, the value of cubic meters of standing wood in forests per hectare and municipality has been calculated. These values have been multiplied with the forest cover which is known from national statistics. The total amounts per municipality have then been multiplied with a specific factor in order to calculate the "additional sustainable potential" for energetic application of wood mobilization in each of the 21 municipalities. According to Streißelberger et al. (2003), 1.53 m³ of wood could additionally be harvested per hectare for energetic applications taking into account technical, ecological and economical considerations. This factor also considers silvicultural measures like tending, thinning etc. In a last step, these potentials have been classified into 3 categories ("low" = 0-1000 m³/a; "medium" = 1000-2000 m³/a; "high" = >2000 m³/a).

d) Limits of this methodology

In order to calculate these potentials, detailed data is necessary. The unused biomass potential in forest can additionally be estimated using remote sensing technologies, orthofotos and GIS-based maps.

2 Additional Forest Biomass Potential



Legend

 Regionalverband Salzburg Stadt und Umgebungsgemeinden

 Regionalverband Salzburger Seenland

Category

 2001+ m³/a

 1001-2000 m³/a

 0-1000 m³/a