

How to promote clean energy transition through the CAP Strategic plans

The example of Austria

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Synergy between the CAP interventions and rural energy production - present

- Biomass district heating and fuel switch of enterprises are financed by the BMK (approx. 5 Mio. + 6 Mio. € per year) since the 90ies.
- Co-financed by CAP since 2000 with ration 50/50
- Most economic reasonable regions are already covered
- High job effects in rural areas
- Significant contribution to the GDP
- Slight increase is expected but more emphasis on efficiency is necessary
- A strong home market secures the basis for technologic development and opens export opportunities

ENVIRONMENTAL EFFECTS OF BIOMASS FUNDING 2017-2019

Bereich	Anz.	UIK in Mio. Euro	Förderungs- barwert in Mio. Euro	CO ₂ - Red. [t/a]	CO ₂ -Red. [t ND]	Energie aus ern. ET [MWh/a]	Energie aus ern. ET [GWh ND]	Energie- einsp. [MWh/a]	Energie- einsp. [GWh ND]
Erneuerbare Energieträger	1.786	365.759.659	52.498.392	396.533	9.484.798	1.102.838	26.079	143.697	2.420
Biomasse Einzelanlagen	879	55.737.319	12.882.842	82.011	1.640.220	264.595	5.292	-	-
Biomasse Mikronetze	86	27.574.066	5.455.449	39.357	787.136	115.059	2.301	-	-
Biomasse Nahwärme	116	105.011.636	12.048.509	58.722	1.174.443	176.632	3.533	-	-
Energiegewinnung aus biogenen Abfällen	5	7.487.714	2.141.634	7.619	114.283	10.917	164	89.566	1.343
Geothermienutzung	2	9.206.554	1.714.955	5.196	155.876	28.445	853	-	-
Herstellung biogener Brenn- und Treibstoffe	2	33.248.456	3.000.000	28.215	423.226	81.350	1.220	7.401	111
Kesseltausch	21	8.677.833	919.666	433	8.667	393	8	1.615	32
Netzverdichtung Pauschal	231	4.836.786	1.180.881	6.807	204.222	22.077	662	5.373	161
Optimierung von Nahwärmeanlagen	40	9.583.096	996.268	3.479	69.571	-	-	32.896	658

CHALLENGES FOR THE BIOMASS DISTRICT HEATING

- Energy efficiency in the households (EU and national goal) reduces the heat demand of district heating
- Environmental standards have to be met (dust emissions, NO_x, noise)
- Careful and professional planning is required to meet these challenges
- Learning from our previous mistakes
 - The heat demand of the consumers was overestimated
 - Overestimated reserve capacity stored in the heating plant
 - The pipeline grid system was overdimensioned
 - Size of the fuel silo was bigger than required
 - Low utilization ratio of the wood boiler
 - Fuel quality does not meet the quality requirements for the installed firing
 - Faults in the hydraulic and in the control system lead to high operational costs
- Biomass heating plants and networks are subsidized by the government
- **Austria introduced a quality management system for biomass district heating in 2005**
- **Court of Auditors recommended it several times in previous reports**

Synergy between the CAP interventions and rural energy production - future

- Biomass + other renewable energy forms in the rural areas
- Further energy-related CAP interventions in the rural area:
 - sustainable mobility in rural areas,
 - regional climate management,
 - photovoltaic (criteria: not on agricultural land except agro-photovoltaics;
- Bio-economy measures to increase the local added value of the agricultural products
 - New logistic for residues and organic material without further use
 - Digital market platform for residues and organic waste to promote the cascadic use of materials
 - Enhanced possibilities for biogas production

Bioeconomy measures for agriculture and forestry – more than CAP

- Forest Fund
 - Demonstration project for Bio-refinery (wood to liquid)
 - Construction subsidies for wood construction
- Environmental Fund
 - Bonus for insulation with natural materials
 - Large programme for changing the heating in private houses
 - More emphasis on circular economy and green chemistry
- Soft measures
 - App to create a market for residues from agriculture and forestry
 - Cooperation with the children museum in Vienna to raise awareness about forest and wood products
 - New research institutes on several universities

Thank you for your attention

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