

Successful implementation of the SUCELLOG concept based on corn cobs in Austria

The mobilisation of agricultural solid biomass for local energy Brussels, 15th February 2017

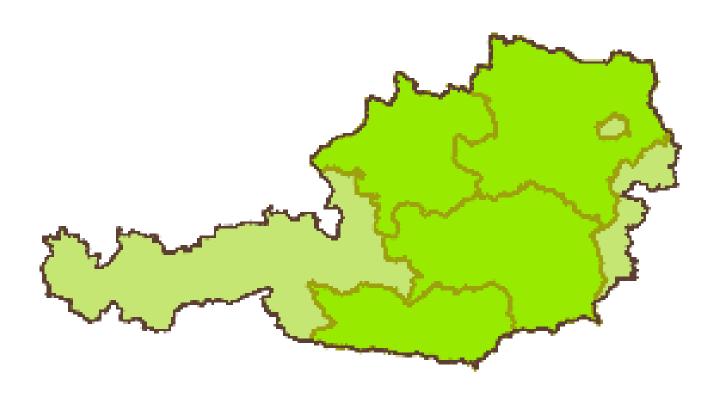
Klaus Engelmann





Project area in Austria



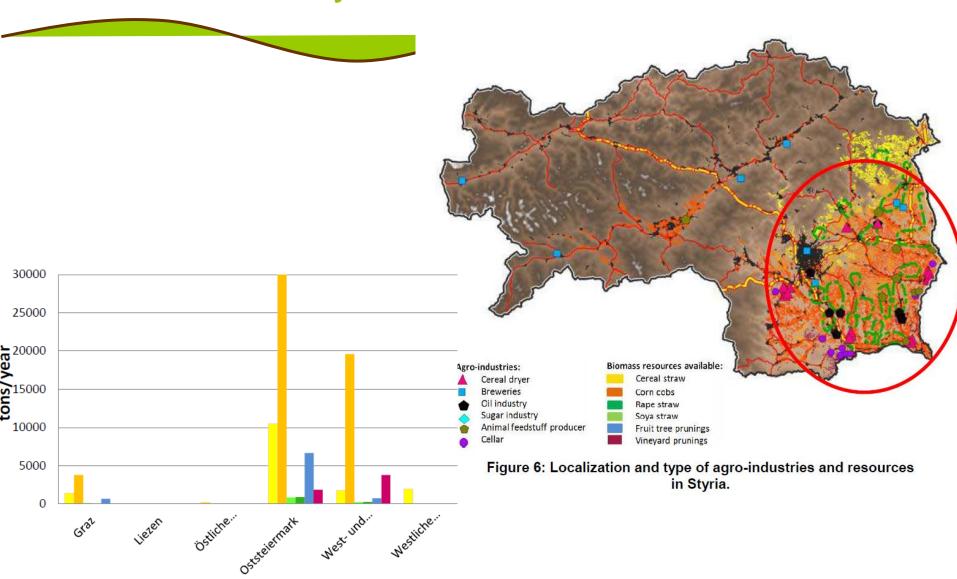






Residues in Styria

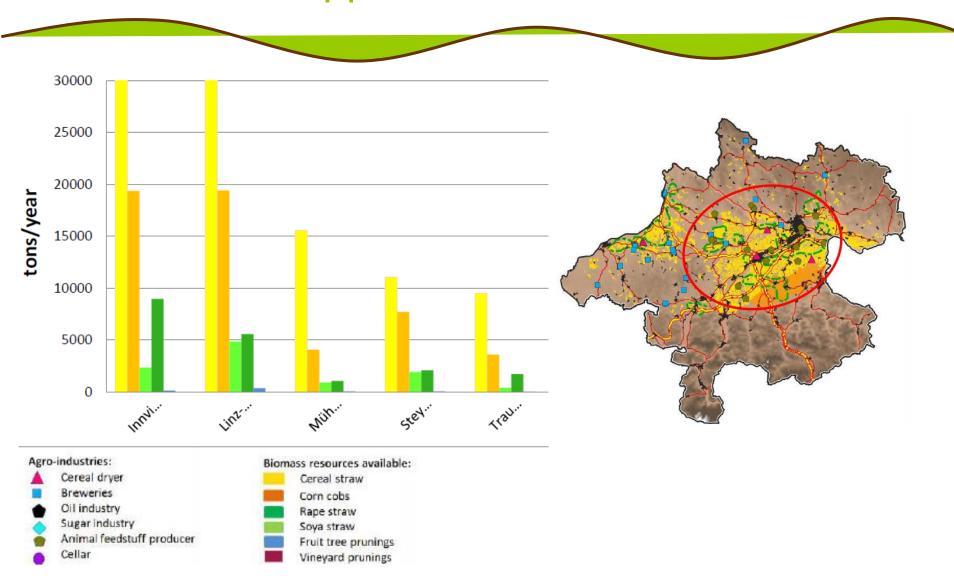






Residues in Upper Austria







Corn cobs



- no competitive usedecent properties









Achievements in Austria



- 20 agro-industries diagnosed
 - 8 agro-industries supported (7 feasibility studies)
 - 308 participants in workshops
 - 56 stakeholders engaged in local meetings
 - 17 meetings with policy makers
 - 197 contacts with stakeholders during the project



Projects impact



SUCELLOG impact : In AUSTRIA, SUCELLOG has triggered the mobilisation of around 2 ktoe of resources for energy production and an expected investment of more than 0.5 M€ in a short-term







oMain activities before Sucellog:

Corn harvesting and drying

Logistic operator of straw

Just 2-3 months of operation/year







patented harvesting machine

adaption costs: ~€ 30.000,-

AVAILABLE RESOURCES (30 km radius)

3280 t/yr wheat straw

1910 t/yr barley straw

15249 t/yr maize cobs

200 t/yr poor quality hay











- o use of corn cobs to dry corn
- o yearly savings:
 - 250 000 litres heating oil
 - 780 tons of CO2
- pay back time:
 - 2 years















- Already in operation
- cooperation in pelletising
- 2016: 1700 t raw material mobilised
- 3 types of fuels
- self-consumption
- partnership with 2 ESCOs









Alwera AG





- ○Region: Styria○Main activities before Sucellog:
 - contract crop growing
 - harvesting, drying, commercialising
- Just 2-3 months of operation/year









Alwera AG



- dry corn cobs available through regular activity
- tests on self-consumption
 - cobs where too dry (slugging, maintenance)
- o thinking of producing grits
 - too small market
- swapping dry against wet cobs with Tschiggerl
- self-consumption: 550 tons wet cobs / year
- Fuel cost savings: ~ 35 000 € / year







- Region: Lower Austria
- Main activities before Sucellog:
 - cereal drying and
 - wood chips drying
 - with heat from biogas plant









o plenty of electriticy and heat available

- o raw materials:
 - overlaid maize silage
 - o corn cob
- o agro-fuels:
 - pellets
 - o grits







Non-technical barriers in Austria



- 1. Lack of political commitment
- 2. Lack of information at biomass users
- 3. Large excess of wood biomass in the market
- 4. Difficulties in securing signed commitments
- 5. Low oil and gas prices
- 6. Lack of appropriate technologies at a reasonable price



Technical barriers in Austria



Main technical barrier:

"very little appropriate and approved technology is available on the market"



Contribution of SUCELLOG to LK



- 1. Understand the energetic context in Austria
- 2. Interact with policy makers
- 3. Provide a valuable service for our members/customers
- 4. Promote a new kind of sustainable energy
- 5. Become a reference on agriculture biomass in Austria







1 sucessful example:

promotes new initiatives
triggers technological innovation
creates awareness for policy makers





Thank you for your attention !!



