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# **New Income opportunities for farmers as Energy producers**

Rom, 9th May 2004

European Biomass Association

May 04  
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## **Farmers as energy producers – Why?**

- to improve security of energy supply
- to reduce CO<sub>2</sub>-emissions
- to create new income opportunities for farmers

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# Farmers as energy producers – How?



I

**Liquid fuels:** vegetable oils  
biodiesel  
ethanol  
raw materials and/or final products

**Electricity:** biogas  
electricity from wood  
electricity from wind, PV

# Farmers as energy producers – How?



II

**Heat:** production of raw material: - wood from forests  
- wood residuals  
(bark, chips)  
- energy crops (SRF)

production of raw material  
and heat: - fire wood for chip furnaces  
on farms  
- heat contracting by farmers  
- district heating systems  
by farmers











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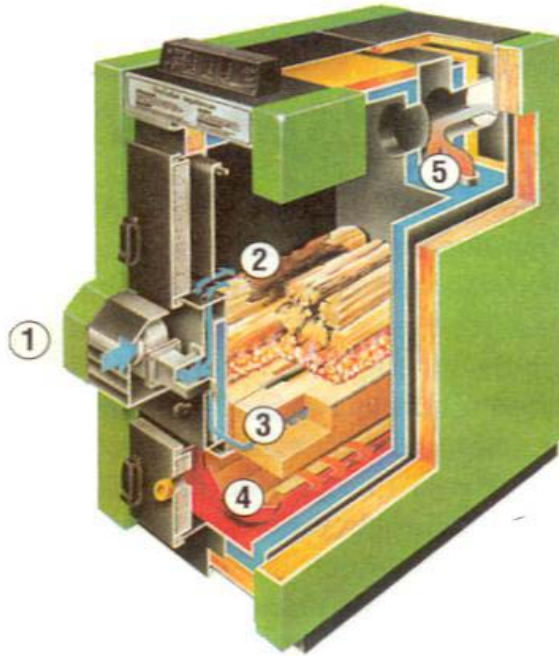
## Brennholz



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## Hackschnitzel

















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# Biomasseheizwerk



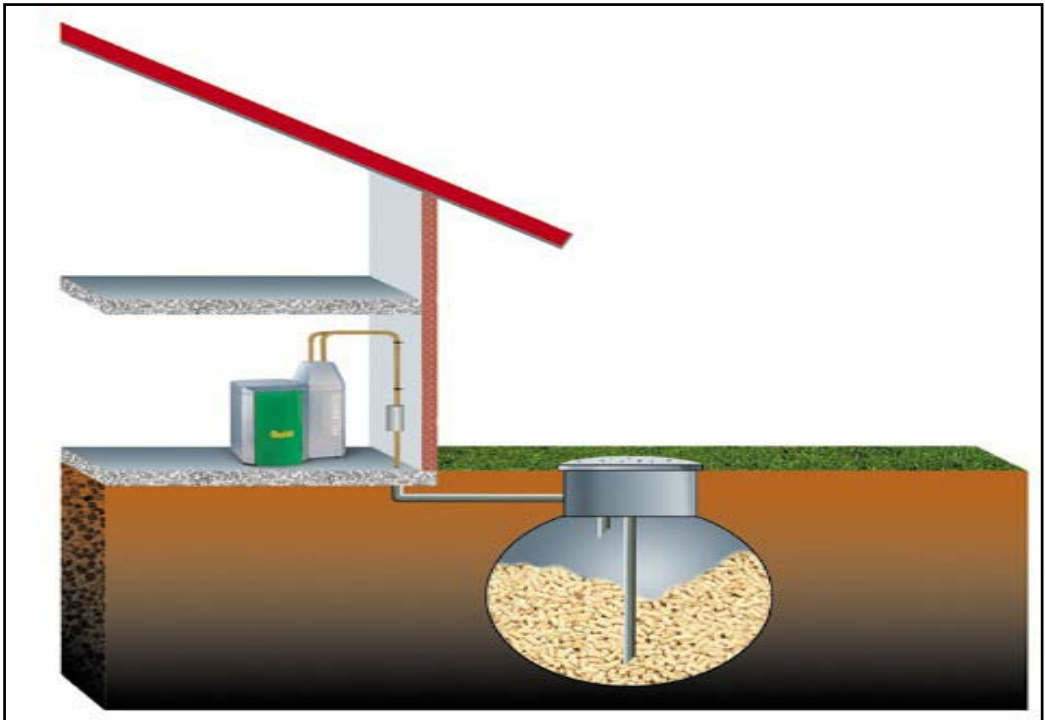
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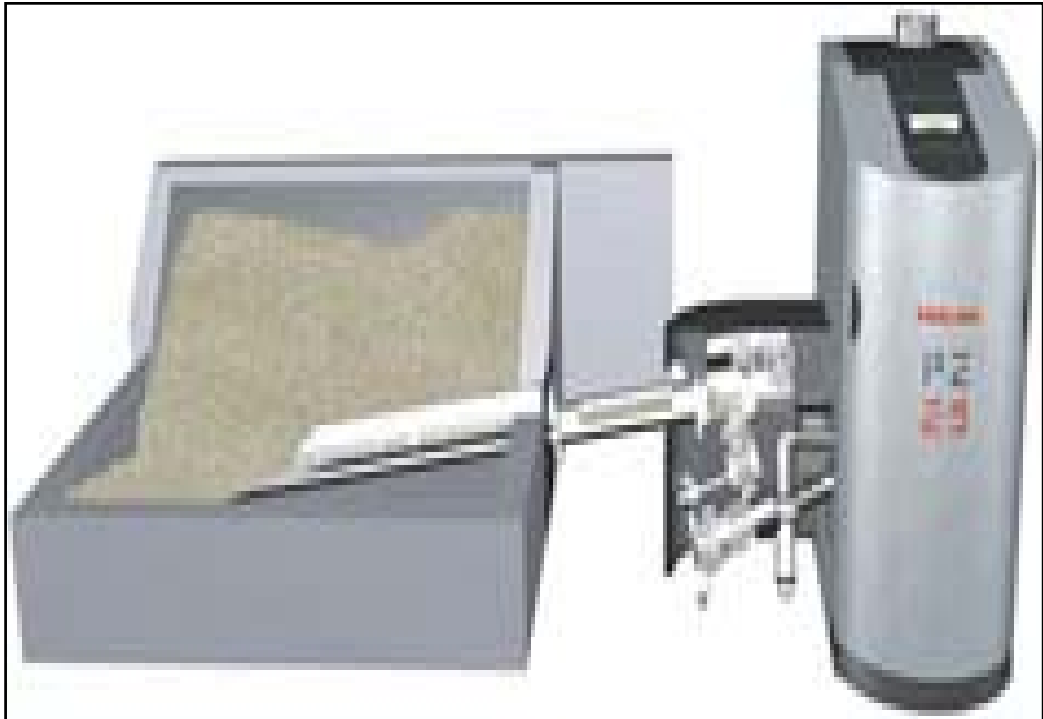
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## Instruments to foster bioenergy from farms (Austrian experiences)



### A) Federal level

- indicative goals for development
- legal regulations
- financial support programmes
- tax incentive programmes
- research and development

### B) Regional and community level

- financial support programmes
- good example policy
- information, consulting, training, education