Relevance of roughage feeding to pigs

**Problem**
A species-appropriate pig diet consists of different feed components with different structures. However, such a diet is technically, and in terms of ration planning, more complex to produce than a feed that is always of the same structure.

**Solution**
Integrate roughage feeding into ration plans and use the farm’s potential for feed production.

**Benefits**
Roughage feeding promotes animal health and welfare and can, at the same time, reduce feed costs on the farm. A good structure and a high crude fibre content of a ration serves as enrichment, improves the feeling of satiety and improves stomach health (Picture 1).

**Practical recommendation**
- With combined feeding, the energy requirement of pregnant sows can be reduced by up to 50% in the first stage of gestation and up to 20% in the last stage of gestation by providing energy-rich roughage products like grass or corn silage (Picture 2).
- For pregnant sows, the daily feed intake capacity for clover grass and maize silage is 2-4 kg fresh matter.
- In addition to clover grass silage (with a high protein value), a cereal and minerals mixture without protein-rich feed components should be used.

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**Applicability box**

**Theme**
Pigs, Feeding and ration planning

**Geographical coverage**
In all countries

**Application time**
Any time

**Required time**
The time needed to harvest the roughage and feed animals

**Period of impact**
Immediate impact

**Equipment**
Machines for harvesting and ensiling, for delivering feed to animals as well as a feeder.

**Best in**
Gestation sows and finishing pigs

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*Picture 1: Feeding roughage, in this case, fresh grass, to sows and piglets. Photo: BOKU*

*Picture 2: A round bale feeder for the ad libitum feeding of rain-protected straw, hay or silage to pregnant sows. Photo: Antje Schubbert*

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• In addition to maize silage, a very protein-rich concentrate is needed. The daily intake of 3.5 kg maize silage per sow can compensate for a concentrated feed quantity of up to 1 kg per day compared with pure concentrated feed.
• In addition to grass silage, 85% of complete feed requirement for pregnant sows could be provided.
• Feeding silage to suckling piglets and weaned piglets prevents diarrhoea.

Further information

Video
• The video "Feeding pigs: effect of silage" is available on Organic Farm Knowledge.

Further reading
• Patzelt, Sybille et al. (2011) Bedarfsgerechte Fütterung von Biosauen und ihren Ferkeln, FiBL, 2011, Merkblatt 1569

Weblinks
• Further documents can be found on the Organic Farm Knowledge website.

About this practice abstract and OK-Net EcoFeed

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