









## **Energy Positive Farm - ENPOS**

## Indirect energy consumption Fertilizers, chemicals, buildings

ENPOS Seminar - Energy use in plant production - Otepää 20 - 22 January 2010

## Conclusions

- Data from energy use and emissions in fertilizer, pecticide and lime production is available
- Reliability of the data is hard to evaluate
- Advisable sources:
  - Edwards, R., Larivé, J.-F., Mathieu, V. & Rouveirolles, P. 2006. Well-To-Wheels analysis of future automotive fuels and powertrains in the European context. Well-To-Tank Report, Version 2b, May 2006.
  - Kaltschmitt, M.and Reinhardt, G. A. 1997. Nachwachsende Energieträger. Grundlagen, Verfahren, ökologische Bilanzierung.
  - www.nnfcc.co.uk/metadot/index.pl?id=2461;isa=Categor y;op=show

## Some general remarks about energy use for construction of buildings

- In plant production buildings are needed as storage for production supplies and for products, and for drying and upgrading the yield
- Many different methods to analyze energy need for construction of buildings
- Analysis is many times based on the mass of construction materials
- More information and recommendations about this topic on next course in February