HELSINGIN YLIOPISTO

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2007–2013

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=Category;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

This material has been produced in ENPOS project. ENPOS is acronym for ***Energy Positive Farm***.

The project partners are
• University of Helsinki, department of Agricultural Sciences – Agrotechnology
• MTT Agrifood Research Finland - Agricultural Engineering
• Estonian University of Life Sciences

Project home page is at http://enpos.weebly.com/

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