



Swiss Centre for Life Cycle Inventories

A joint initiative of the
ETH domain and Swiss
Federal Offices

ETH

EPFL

PSI

EMPA

ART

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transports with biofuels

Niels Jungbluth, ESU-services Ltd.

Investigated biofuels for the “Ökobilanz von Energieprodukten”



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- Scope: from cradle-to-grave
- Goal: assess total environmental impacts of different biofuel pathways for a possible tax redemption
- Overview of investigated biofuels:

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Methane 96%
slurry
biowaste
sludge
whey
grass

Ethanol 99.7%
wood
grass
potatoes
sugar beets
whey
sugar cane BR
maize
rye DE / RER

Methanol
waste wood
industrial wood

XME
waste cooking oil
rape seed CH/RER
soya oil US / BR
palm oil MY

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Presentation: Niels Jungbluth



Transport services with biofuels



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- Passenger cars
 - Compressed natural gas
 - Methane 96%
 - Ethanol 5%
 - Methanol 100%
 - Plant oil methyl ester 5%
 - ETBE 15%
 - EURO 3, 4, 5 for petrol and diesel
- Trucks
 - Rape seed methyl ester 100%

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