

## GHG calculation models and the Dutch Freight Labelling Initiative

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## Pilot project in the Netherlands - Background

- **Horticultural sector initiative**
  - "Infrastructure Greenports" (new logistic concepts)
  - 'Green products, green transport' (Schoon Vervoerd)
- **Objective**
  - Enhancement of the sustainable image of Dutch horticultural sector
  - Reduction of CO<sub>2</sub> emissions of transport of horticulture products
- **Consortium: leading parties in production, trade and distribution of flowers, plants, vegetables, and fruits**
  - Product Board for Horticulture
  - Dutch Trade Platform for Vegetables and Fruits (Frugi Venta)
  - Several auctions ('Greenports')
  - Transport companies
  - Innovation Network
  - Rabobank



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## Pilot project in the Netherlands - Objective

- **Introduction of...**
  - pure biodiesel (B100) at an existing refuelling station near an auction and supply to trucks
  - carbon labels on trucks and the refuelling station



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## Pilot project in the Netherlands – Activities (1)

- **Application of carbon labels on trucks**

- Total of 100 trucks
- Combining brand/company logos with carbon labelling logo
- High visibility: 150,000 hours in NL; 50,000 hours abroad



- **Application of carbon labels on refuelling station**

- Supply of pure biodiesel (B100) by oil company BP
- Sustainably produced rapeseed
- Located at auction Flora Holland



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## Pilot project in the Netherlands – Activities (2)

- **Communication regarding carbon labelling**

- Official start of the project: Third week of January 2008
- Flyers, fairs and exhibitions, presentations, press releases
- Website



*Stand at the HortiFair 2007, RAI  
Amsterdam, The Netherlands*

- **Monitoring and evaluation**

- **Exploring expansion options of the pilot project**

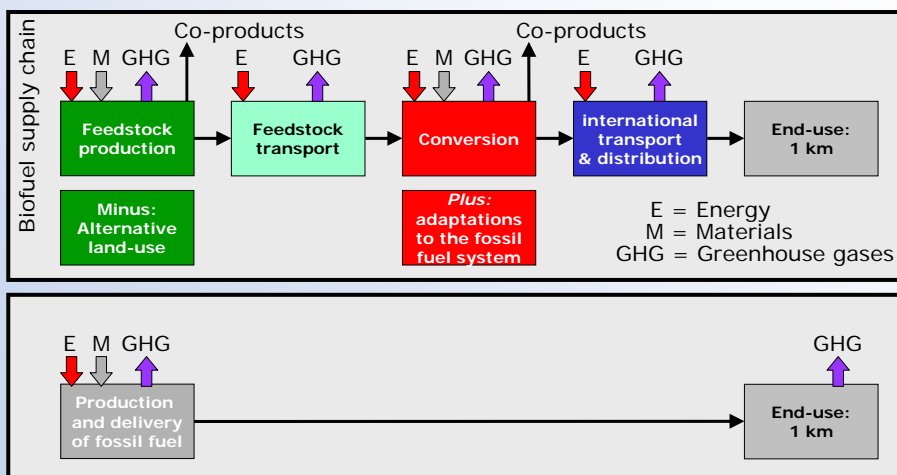
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## GHG calculation model - Background

- **Why the CO<sub>2</sub> tool?**
  - Allow CO<sub>2</sub> reporting, as part of reporting on sustainability, within the biofuels obligation scheme
  - Calculate well-to-wheel GHG emissions (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O)
- **CO<sub>2</sub> tool is compromise between**
  - Scientifically correct and detailed LCA analysis
  - Robust, easy to use and less detailed policy instrument

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## GHG calculation model – Methodology (1)



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## GHG calculation model – Methodology (2)

- **Direct land use change**

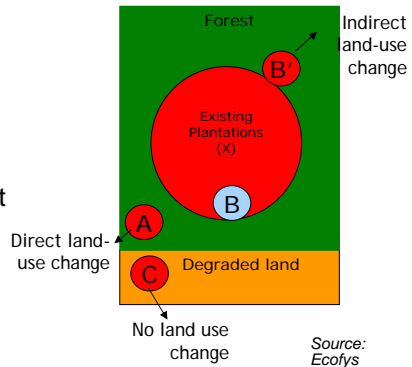
(included in the CO<sub>2</sub> tool)

- What was prior use of the hectare for feedstock production
- Impact on carbon balance determined via IPCC methodology
  - ▶ Soil carbon
  - ▶ Above ground carbon

- **Indirect land use change**

(not included in the CO<sub>2</sub> tool)

- What happens to overall market due to biofuels production?



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## GHG calculation model – Process and status

- **Process**

- Work has been performed by Ecofys + CE
- Supervision by SenterNovem and Steering Group
- Stakeholders involved through Advisory board and smaller meetings
- Products are
  - ▶ Technical Specification (document with methodology and data)
  - ▶ CO<sub>2</sub> tool = Excel based software

- **Current status**

- Final draft is under preparation
- Technical Specification and tool to be made public in next months
- Update is foreseen for mid 2008

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## Demonstration of the Dutch CO<sub>2</sub> tool

**EXCEL FILE**