

## **Renewable energy in the transport sector – using biofuels as energy carrier” (REBECA)**

An EU policy decision to introduce 5.75 % biofuels in the transport sector from 2010 and an EU policy on renewable energy targets for 2020 by EU in 2009, including a target of 10 % for the transport sector frame the background of this integrated and multi-centre project.

The aim of the project was to investigate the potentials for providing biofuels for the road transport sector based on domestically cultivated bioenergy crops in Denmark, and to analyse the Well-to wheel (w-t-w) consequences for air quality, land use, GHG emission and welfare economics. Based on the international debate on sustainability, a review of international perspectives on biofuels was carried out.

Two scenarios for biofuel introduction were developed – a conservative, following EU renewable energy targets for transport of 10 % in 2020 and keeping this level to 2030, and a more ambitious, with a biofuel share that increases to 25 % in 2030.

ENVS-AU contributed with agricultural bioenergy potentials and (w-t-w) consequences for air quality, land use, GHG emission and welfare economics of the scenarios.

The project was funded by the Danish Strategic Research Council and running from 2007 to 2011.

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