



Greenhouse gas management
in European land use systems

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Deliverable D2.1			
Title	Workshop on the effect of land use changes on GHG fluxes		
Delivery date from Annex I (project month)	6		
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Lead participant	WP	Nature	Dissemination level
VTI (1)	2	O	RE

Deliverable description

The GHG-Europe workshop with the title “Land use change for bioenergy production: Impacts on GHG emissions and mitigation potential” was held in Dublin 27-29 October 2010. Land conversion to bioenergy systems is one of the expected main drivers of land-use change in Europe. However, little is known on the effects of bioenergy production on soil carbon and the greenhouse gas balance. Especially, new dedicated energy crops such as Miscanthus, switch grass and poplar are incompletely understood in its effect on the field specific greenhouse gas balance. In order to fill this gap and to gather the scattered existing knowledge a three days workshop was set up by UCD (Bruce Osborne) and vTI (Axel Don, Annette Freibauer). More than 40 scientists working on greenhouse gas balances of energy crops were invited and came to Dublin. In four sessions on annual crops, perennial grasses, trees and life cycle assessments very recent research was presented. A main conclusion of this workshop was that current knowledge is fragmented and just emerging. Results of this workshop were synthesised in a review publication (see below) and six additional manuscripts that are on the way to be published together in a special issue in Global Change Biology Bioenergy.

Don A, Osborne B, Hastings A, et al. (in press) Land-use change to bioenergy production in Europe: implications for the greenhouse gas balance and soil carbon. Global Change Biology Bioenergy.