EXPLOITABLE FOREGROUND

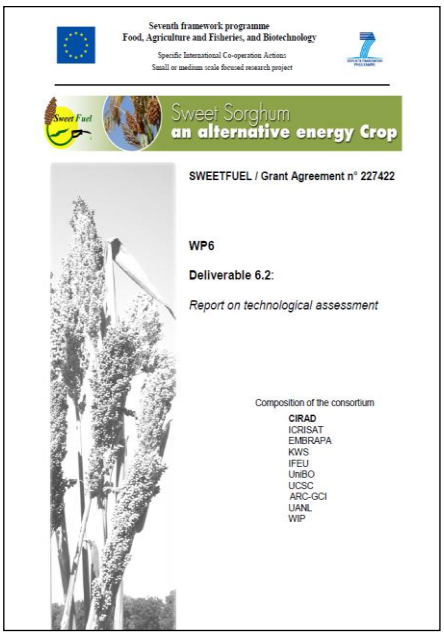
Technological assessment of sweet and biomass sorghum

Explanation and Purpose

The technological assessment defines all sweet and biomass sorghum scenarios investigated in the SWEETFUEL project, and evaluates differences in the technology of sweet and biomass sorghum cultivation and processing. The assessment focuses mainly on cultivation aspects since those differ greatly due to different growing regions coupled with various production practices, environmental conditions and economic resources. Several indicators such as cultivation experience, breeding potential and harvest technology were defined and evaluated. The purpose of this assessment was to identify technological potentials, challenges and bottlenecks which might occur if sweet and biomass sorghum are used as bioenergy crops.

Exploitation Strategy

The technological assessment was published in a detailed report, which is available on the SWEETFUEL homepage:


Seventh framework programme
Food, Agriculture and Fisheries, and Biotechnology

Specific International Co-operation Actions
Small or medium scale focused research project

Sweet Sorghum
an alternative energy Crop

SWEETFUEL / Grant Agreement n° 227422

WP6

Deliverable 6.2:

Report on technological assessment

Composition of the consortium

CIRAD
ICRISAT
EMBRAPA
KWS
IFEU
UniBO
UCSC
ARC-GCI
UANL
WIP

Further Research

Results of the technological assessment show that there is a great potential to further improve technological conditions of bioenergy production from sweet and biomass sorghum. In the case of sweet sorghum cultivation, for example, further research is especially needed to enhance the harvest technology in order to harvest the entire plant and make leaves and grains accessible to bioenergy production.

Impact of Exploitation

Information and facts of the technological assessment may help stakeholders (politicians, scientists and researchers, industry, NGOs) to recognize and overcome technological challenges and to identify technological potentials as aims to be pursued in further projects.

SWEETFUEL

Sweet Sorghum: an alternative energy crop

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