

# OPTFUEL

Optimised fuels for sustainable transport in Europe



## Objectives

OPTFUEL undertakes a first large scale demonstration of the Biomass to Liquid (BtL) production chain from biomass via gasification and fuel synthesis to the final fuel in the consumer car. All production chain components from biomass provision up to market introduction of final consumer fuels containing BtL will be optimized and demonstrated.

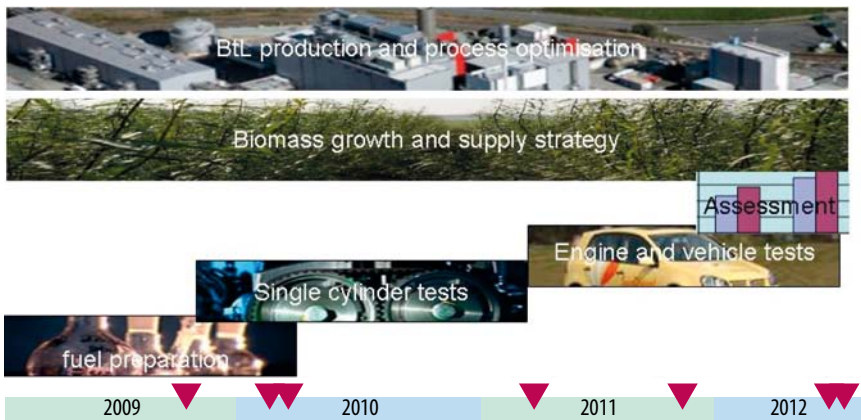
The motivation of the project is:

- demonstration of BtL-Fischer Tropsch fuels is urgent necessary, being the step before full commercialisation
- clarification whether BtL-splash blend or -designed blend has more benefits to the engine performance

The objectives of the project are:

- demonstrate the production of BtL in industrial size
- develop the basis for large scale production including biomass supply strategies
- develop proposal for BtL-blend specification
- supply up-to-date Well to Wheel data in terms of fuel costs and CO<sub>2</sub>-emission.

## Project Plan, Milestones and Deliverables



## Technical Approach

- demonstration the feasibility of BtL by production in a 45 MW plant environment producing 15000 t BtL/a
- modelling the BtL process including a model validation and conduct dynamic calculations for a large scale BtL plant
- utilisation of BtL fuels as blend component for diesel and HCCI combustion
- derive most suitable fuel blend formulation to maximise emission benefits
- demonstrate the fuel benefits in show cars

## Achievements

WP1: successful plantation and growing of first 100 ha of energy crops (willow, poplar)



## Organisational Information

Budget	13.6 M€	Funding	7.8 M€
Duration	42 months	Start	January 2009
DG	TREN	Priority Area	Renewable energies
Coordinator	Eckart Heinel, VW	Contact	Eckart.Heinel@volkswagen.de
OEM Partners	10 partners among them FORD, RENAULT, CONCAWE, CHOREN		
Website	www.optfuel.eu		