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NICOLAS BROSSE

Editor PPT

BIOGRAPHY

- Dr. Nicolas Brosse is currently a research group leader in LERMAB (laboratory dedicated to wood material). His is an organic chemist with experience in multiple areas of organic synthesis, characterization of organic compounds and solid phase synthesis. His current interests include ligniocellulosics pretreatment, polyphenolics characterizations and utilizations.
- His research interests are Green chemistry, Natural product chemistry, Bioremidiations, Biofuels, Bioplastics, Biomass, Lignin.

RECENT PUBLICATIONS

- Nonviho G., Paris C., Muniglia L., Sessou P, Agbangnan D.C.P., Brosse N (2014) Chemical characterization of Lophira lanceolata and Carapa procera seed oils: Analysis of Fatty Acids, Sterols, Tocopherols and Tocotrienols. Research Journal of Chemical Sciences.
- Afidah Abd Rahim, Mohamad Nasir Mohamad Ibrahim, Dominique Perrin, Nicolas Brosse (2014) Antioxidant and anti corrosive properties of oil palm frond lignins extracted with different techniques. Annals of Forest Science.
- Mohamad Nasir Mohamad Ibrahim, Dominique Perrin, Mehdi Yemloul, Nicolas Brosse (2014) Impact of catalytic oil palm fronds (OPF) pulping on organosolv lignin properties. Polymer Degradation and Stability.

BIOFUEL PRODUCTION

SECOND GENERATION FUELS

- Wide range of input feed stocks

  Woody biomass, waste, energy dedicated crops
- Generally lower cost feed stocks
- Non-food crops so less competition with food
- Can use whole crops so get better land use and energy balance
- Example of feedstocks : miscanthus, oil palm biomass, wood saw dust…

OVERVIEW OF BIOFUEL PRODUCTION TECHNOLOGIES

SECOND/THIRD GENERATION BIOFUELS

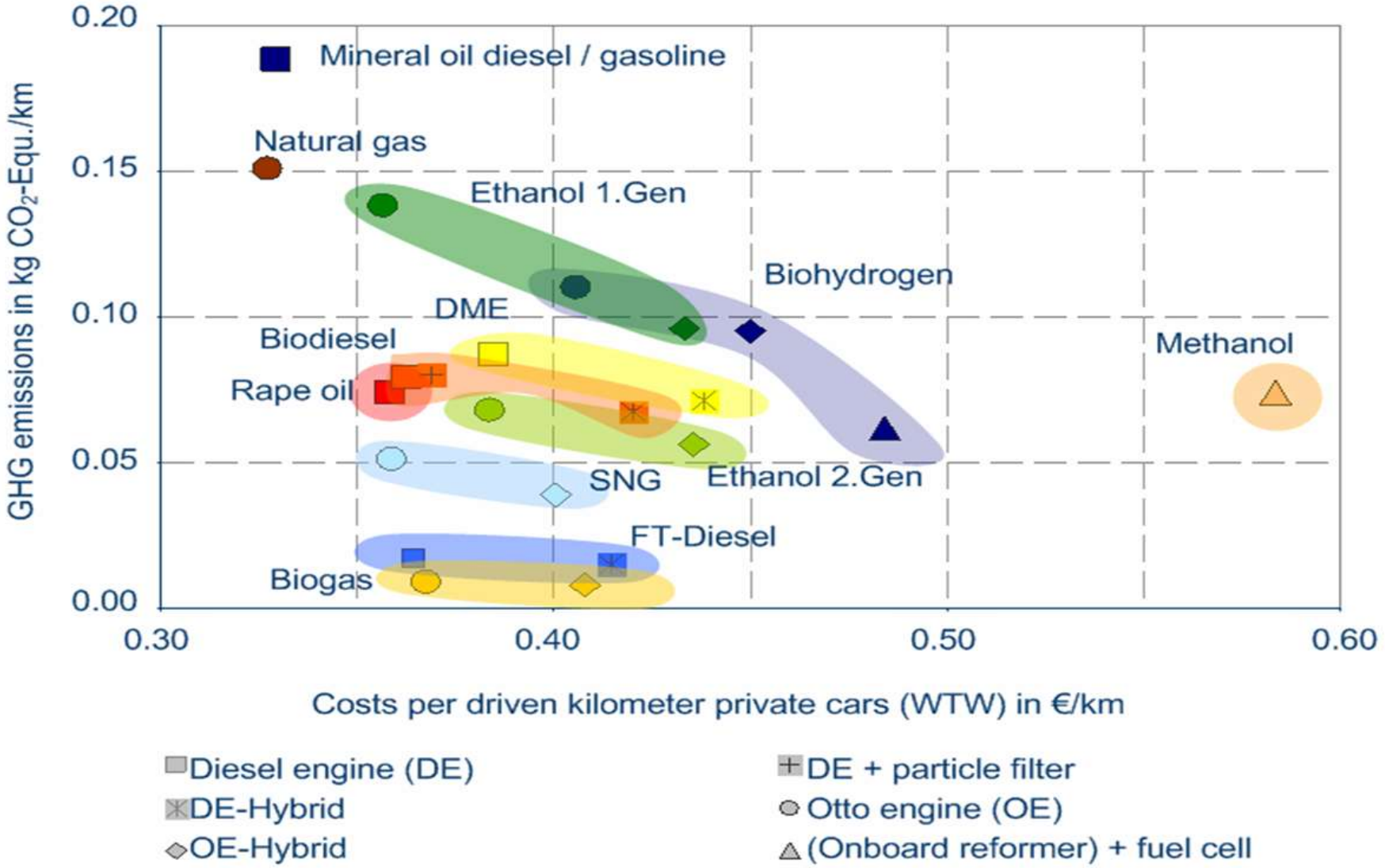
Biofuel type	Specific name	Feedstock	Conversion Technologies
Bioethanol	Cellulosic bioethanol	Lignocellulosic biomass and biowaste	Advanced hydrolysis & fermentaion
Biogas	SNG (Synthetic Natural Gas)	Lignocellulosic biomass and residues	Pyrolysis/Gasification
Biodiesel	Biomass to Liquid (BTL), Fischer-Tropsch (FT) diesel, synthetic (bio)diesel	Lignocellulosic biomass and residues	Pyrolysis/Gasification & synthesis
Other biofuels	Biomethanol, heavier (mixed) alcohols, biodimethylether (Bio-DME)	Lignocellulosic biomass and residues	Gasification & synthesis
Biohydrogen		Lignocellulosic biomass and biowaste	Gasification & synthesis or biological process

PRETREATMENT TECHNOLOGIES

Essential step to improve the enzyme digestibility of lignocellulosic feedstocks for cellulosic ethanol production

- Organosolv pretreatment
- Soda pretreatment

COMPARISON OF TECHNOLOGIES ECONOMIC VERSUS ENVIRONMENTAL ASPECTS



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