Ambrian Energy GmbH
Presentation at ISCC General Assembly -
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CREATING VALUE ACROSS THE RESOURCES SECTOR
Ambrian’s Biofuels Business

- Ambrian Energy GmbH is wholly owned by the UK investment bank Ambrian Capital Plc, which is listed on the London Stock Exchange.

- Ambrian biofuel business is organized in a global manner. Headquartered in Hamburg, Germany, Ambrian Energy has a representation in Singapore and agents in North and South America.

- Biodiesel, sourced from South East Asia (PME), South America (SME) and within Europe (RME/UCOME).

- Storage & blending capacities for FAME in ARAG.
Within the Europe 2020 stability and growth pact, the EC has launched 20/20/20 climate energy targets as follows:

- Reduction of greenhouse gas emissions by at least 20% compared to 1990 levels
- Increase of renewable energy sources share in EU final energy consumption to 20%
- 20% increase on energy efficiency

The EU Renewable Energy Directive (RED) 2009/28/EC repeals the directive 2003/30/EC and foresees:

- 10% target for energy from renewable sources in the transport sector by 2020
- Sustainability requirements for biofuels include good agricultural practice / protection of natural areas / GHG mitigation potential based on default values of feedstock
Objectives – Standard GHG emissions comparison for biofuels

- **Fossil Fuel**
- **Soybean Methyl Ester**
- **Rapeseed Methyl Ester**
- **Palm ME (incl.CH4 capt.)**
- **Used Cooking Oil ME**

GHG emissions in g CO2eq/MJ

- max. 33.5 g from 2018
- max. 41.9 g from 2017
- max. 54.5 g from 2010/13

Source: UFOP
2013: Implementation and control of national action plans with yearly review.

German biofuels quota law (Bundesimmissionsgesetz) - 6,25% energetic until 2014 which will be replaced by a GHG mitigation target from 2015 onwards.

By then the market is expected to have passed from a mandatory energetic volume blending quota system to a GHG reduction scheme.

So far, EU-27 represents a “multi-sustainability” market due to different national standards.

Only ISCC and RED Cert are EU-wide accepted certification schemes embodying aspects of non-EU sustainability initiatives such as RSPO or RTRS.

EU mandatory off-take of certified FAME feedstock exceeds EU-27 supplies:
European Vegoil Production

- Total EU-27 vegoil production for 2010/11 is estimated over 14 mln mt (source: Oil World).

- Crude rapeseed oil is by far Europe’s most important vegoil (around 9,5 mln mt for the EU-27 in 2010/11).

- EU-27 top rapeseed oil producing countries use rapeseed (oil) mainly for biodiesel esterification (see chart), but over 30% is also needed for the Food-chain.

Source: UFOP
Over 10 mln mt of biodiesel consumed in the EU-27 in 2010 and going to 80% by 2050 (source: Biodiesel Digest reports),

RME is hardly able to satisfy the current demand, not to speak about growth ambitions.
Fulfilling certified product demand, certified non-EU FAME feedstock has to be imported.

ISCC is the only EU accepted certification scheme with activities in South East Asia and South America embracing local initiatives such as RSPO and RTRS.

During global audits and within the framework of ISCC, Certification Bodies focus also on LCA as well as ILUC calculations.

The latest modification of the German Biomass Law as of 06/12/2010 extended the mass balance period to one year until the 30/06/2011. Thanks to that, more time is granted to ISCC to optimize a European-wide harmonized certification system...
EU Harmonisation of Sustainability certification

- ...and to enhance and clarify unclear matters such as data protection (csv.file etc.), and server compatibility with ministries etc.

- ISCC can gain international recognition for the implementation of sustainability certification in and outside the EU-27 by 2013 (simplification of auditing)...

- ...and ISCC can become the basis for a smooth transition from diversified and heterogeneous trading of sustainable EU-27 products to a homogenous EU-27 GHG reduction based trading scheme.
Thank you!