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Investing in Opportunities
This project has received European Regional Development Funding through INTERREG IV B.
INTERREG IVB

Algae as a Feedstock for Energy

Biodiesel

Biodiesel, made from lipid extracted from microalgae can be used as fuel providing it meets the quality standard. This means that contaminants such as magnesium are below the maximum concentrations set out in the standard.

EU Standard for Biodiesel: EN 14214 Fatty Acid Methyl Esters for Fuel

http://standards.cen.eu/dyn/www/f?p=204:350:::FSP_SURR_WI:40952&cs=16800FD6264FC0B1EFAF82E387CB8188E

Report on Technical Standards and Test Methods PD CEN/TR 16557:2013

http://standards.cen.eu/dyn/www/f?p=204:110:0::::FSP_PROJECT,FSP_ORG_ID:39066,6003&cs=17BB5F223794A0C2762A4B5090B07D79A

Bioethanol

Bioethanol for fuel is covered by a separate EU standard. Again, this sets out the criteria for purity.

EU Standard for bioethanol EN 15293

http://standards.cen.eu/dyn/www/f?p=204:110:0::::FSP_PROJECT,FSP_ORG_ID:29433,6003&cs=12205B3C8F8168AB461AE98EEF3CD3251

Report on Technical Standards and Test Methods CEN/TR 15993:2013

http://standards.cen.eu/dyn/www/f?p=204:110:0::::FSP_PROJECT,FSP_ORG_ID:34696,6003&cs=1D0CE7D6A814D2C4855A01D1AF2AC67AA

Methane

EU Standard for biomethane are under development (prEN 16723), but further information can be found here:

http://standards.cen.eu/dyn/www/f?p=204:220:::FSP_ORG_ID,FSP_LANG_ID:853454,25&cs=1A6E2885FFA69ED2A8C4FA137A6CEF3DA

The Renewable Energy Directive

The Renewable Energy Directive (RED) 2009/30/EC contains sustainability criteria that relate to end-products.

Most significantly, the RED states that total CO2 emissions of biofuels produced should be 35% less than fossil fuel equivalents (rising to 50% from 2017, and 60% from 2017 for new installations). Of importance to algal biofuel production, therefore, is ensuring that fuel products do actually result in emissions reductions.

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