

## MORE INFORMATION...

### *Cost competitiveness – find out more...*

A closer look at what biofuel costs are and if they are competitive

When comparing alternative transport fuels, or renewable energy technologies in general, the cost of CO<sub>2</sub> abatement is often used to compare the different options. If a biofuel can be produced at the same price as a fossil fuel, if it does not require new infrastructure and if the biomass feedstock is a free resource, meaning that it has no other uses, then the cost of CO<sub>2</sub> abatement is zero.

The biomass feedstock can only rarely be regarded as a free resource. An example is agricultural residues that may have no other use, but if removed there is a loss of nutrients and soil carbon, which then induces a cost. The cost of CO<sub>2</sub> abatement from biofuels depends highly on the system and fuel analysed as well as local or regional conditions, with estimates varying from €25-150 /tonne<sup>1</sup>.

---

<sup>1</sup> Møller F, Slentø, E, Frederiksen P. (2014) Integrated well-to-wheel assessment of biofuels combining energy and emission LCA and welfare economic Cost Benefit Analysis. Biomass & Bioenergy 60, 41-49. [Visit resource centre](#)