
News letter - on making the difference.

"Is biofuel for real ?

1. [Industrial production of biodiesel feasible within 15 years](#) "Within 10 to 15 years, it will be technically possible to produce sustainable and economically viable biodiesel from micro-algae on a large scale. Technological innovations during this period should extend the scale of production by a factor of three, while at the same time reducing production costs by 90%. Two researchers from Wageningen UR (University & Research Centre) believe this to be possible. In their article in Science (published 13 August), they provide a detailed explanation of the route that needs to be taken.. [sciencemag.org](#)
4. [Cost-Effective and Viable Second Generation Biofuels](#) "DSM coins the patented process an "all you can eat yeast," which substantially improves the conversion rate, up to 100% yield improvement, of sugars into ethanol. This breakthrough will help second generation biofuels to become more cost effective and to become a viable alternative to both first generation biofuels and conventional fossil fuels. Second generation biofuels are manufactured from agricultural residues or specially cultivated energy crops that do not compete with the food chain because they can be grown on land that is deemed less suitable for food production ...The new process includes using an enzyme that breaks down cellulose in waste agricultural products. The sugars produced from the waste agriculture products are then converted by DSM's "advanced yeast" strain into ethanol, or biofuel. [connect-green.com](#)
7. [Canadian Renewable Fuel Pioneer Ensyn Announces Advanced Biofuel Plant](#) "The Canadian Renewable Fuels Association (CRFA) today heralded a new partnership between Ensyn Technologies Inc. and Tolko Industries that will see the construction of the world's largest fast commercial pyrolysis plant in High Level, Alberta. Fast pyrolysis is an exciting next generation bio-energy process that generates synthetic oil from agricultural and forestry bio-mass that, in turn can be transformed into transportation fuels. [greenfuels.org](#)
9. [Germany: Aviation Industry Harnesses Algae for Biofuel](#) "There are plans within the aviation industry to replace kerosene with biofuel derived from algae. The new fuel comes with a surprising benefit: Planes will be able to fly farther on the same amount of fuel." <http://www.spiegel.de>
2. [Searching for Biofuels' Sweet Spot](#) "California-based Amyris has used breakthroughs in synthetic biology to reinvent biofuels. To turn its technology into an industrial process, it has headed to the land of sugar: Brazil. Amyris has raised more than \$170 million in venture capital to get itself into the biofuels business and that its current plans call for producing nearly all that fuel in Brazil" [Technologyreview.com](#)
3. [Denmark Makes Stab for Biofuel Greatness](#) "The country's largest biotech companies announce competing enzymes that bring cellulosic ethanol closer to cost-competitiveness with gasoline" [greentechmedia.com](#)
5. [Pyrolysis Oil Based Biofuel](#) –"Pyrolysis oil can be made from a wide range of biological and other energy containing products that would normally be waste materials. The supply opportunities are great. Plant wastes, items normally heading to a landfill, and other waste streams that are often difficult to dispose of can now become energy sources for our biofuel formulations. Pyrolysis oil adds another differentiating advantage for us. We believe this is a significant addition to our product portfolio." [forbes.com](#)
6. [Airbus' Parent Company Showcases Algae Powered Flights](#)– "A Diamond DA42 with Austro Engine AE300 diesel powerplants has been flying for a couple of weeks with one engine using 100% biofuel, while the other burns regular kerosene jet fuel. The aircraft is operated jointly by EADS Innovation Works and Diamond Aircraft" [aviation-week.com](#)
8. [14 major airlines have an agreement with a Seattle-based company](#) "An oilseed that can grow in arid portions of eastern Washington could one day supply fuel for commercial and military aircraft, power Navy ships and give livestock an important heart-healthy nutrient. Camelina, a member of the mustard family, produces an oil that shows so much promise as an aviation biofuel that 14 major airlines have an agreement with a Seattle-based company to buy up to 750 million gallons of the fuel." [tricityherald.com](#)