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Biofuels: What's in Store for The Future?

In the scenario of imminent energy crises fuelled by huge import bills and rising prices of petro-based products, Biofuel seem to be options of the future.

Companies and scientists are working in a number of areas to extend the benefits of biotechnology to new generations of Biofuel

Researchers are developing biocatalysts ó enzymes, yeasts and bacteria produced using biotechnologyô that will make it possible to produce ethanol from just about any organic matterô so-called òcellulosic ethanol.ö

Biotechnology is being used to produce new, improved Biofuel that perform more like gasoline than ethanol. They will be blended at higher rates, transported through existing infrastructure and provide better fuel economy.

Micro algae ô tiny, single-celled aquatic organisms ô are rising stars in the renewable energy sector. They can provide oil that can be turned into liquid fuels such as biodiesel and jet fuel. Algal oil is mostly triacylglycerides ô long fatty acid chains with glycerol backbones ô that can be converted to diesel and other fuels in relatively few steps.