

Biofuels

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What are biofuels?

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- Fuel borrowed from biomass
- Fossil Fuels



Bioenergy

-Where does it come from?

-What is it?



Why is it better for the environment than fossil fuels?

-Renewable

-Lower emissions

-Biodegradable

-Safer



TRADITIONAL GASOLINE

98.2 KGCO₂E/MMBTU*



STARCH-BASED BIOFUEL

56.0 KGCO₂E/MMBTU

↓ 43%



CELLULOSIC BIOFUEL

14.7 - 4.9 KGCO₂E/MMBTU

↓ 85-95%



Biofuels life cycle

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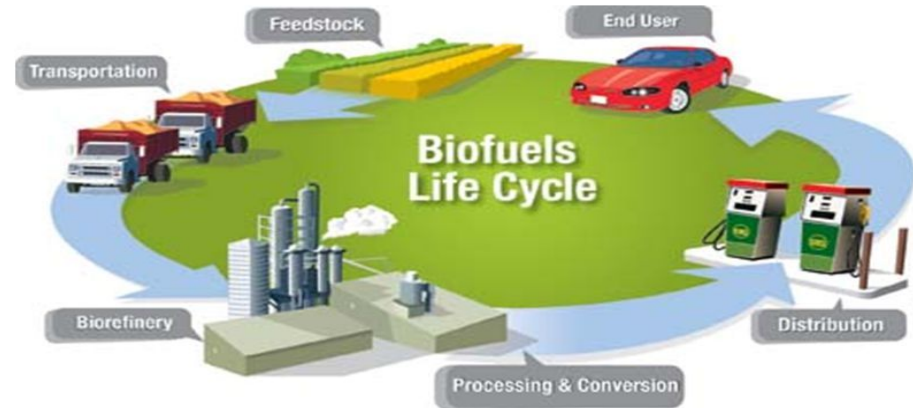
-Feedstock

-Transport

-Biorefinery/Processing

-Distribution

Life cycle of traditional biofuels



Important consideration: life cycle greenhouse gas emissions

SC Opinion on Greenhouse Gas Accounting in Relation to Bioenergy: <http://www.eea.europa.eu/about-us/governance/scientific-committee/sc-opinions/opinions-on-scientific-issues/>
Image: <http://www.extension.org/sites/default/files/w/2/22/BiofuelLifeCycle.jpg>

What are the disadvantages?

-Cost

-Less suitable for low temperatures

Thankyou

We know you enjoyed