

BIOFUEL

Definition

A **biofuel** is any fuel whose energy is obtained through a process of biological carbon fixation. To be considered a biofuel it must contain over 80 % renewable materials. It can be derived directly from plants, or indirectly from agricultural, commercial, domestic, and/or industrial wastes.

Biofuels generally involve carbon fixation through the process of photosynthesis. It is produced by conversion from biomass in three different ways:

- thermal,
- chemical and
- biochemical.

Biofuel can be solid, liquid or gaseous. The most common types of biofuels are bioethanol and biodiesel, which are predominantly used in the transport and heating sectors.

Related terms

Biomass, Biogas

Keywords

Carbon fixation, Bioethanol, Biodiesel, Transportation fuel, Heating fuel

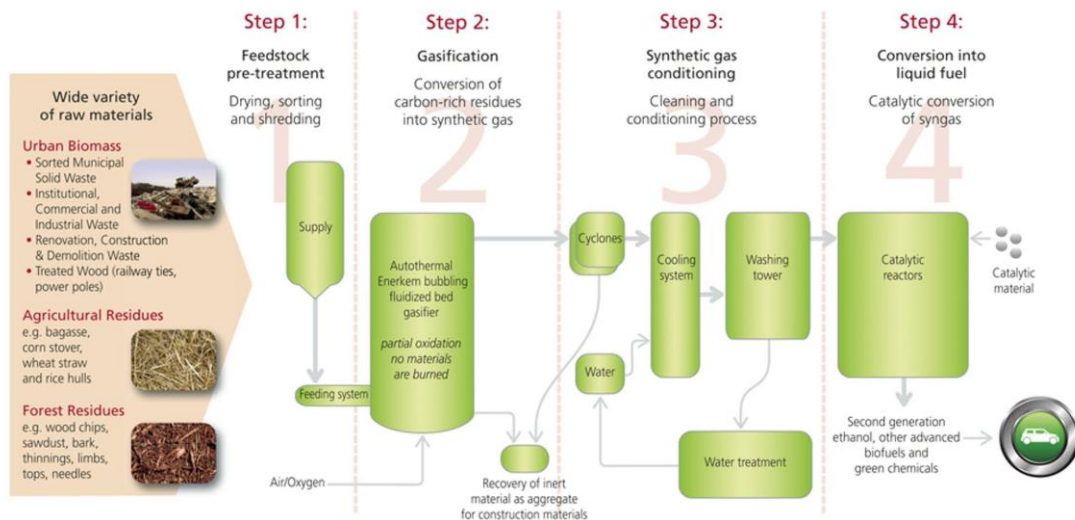


Figure 18a Scheme of production of biofuels from the waste. (Source: [http 14](http://14))

Sources

http15: <http://biofuel.org.uk/glossary.html>

http16: <https://ec.europa.eu/energy/en/topics/renewable-energy/biofuels>

http17: <http://www.alternative-energy-news.info/technology/biofuels/>

http 18: www.gov.uk/guidance/industrial-energy-and-non-food-crops-business-opportunities-for-farmers

Translations

Bosnia and Herzegovina **Biogorivo**

Bulgarian **Биогориво**

Croatian **Biogorivo**

Czech **Biopalivo**

Danish **Biobrændsel**

Dutch **Biobrandstof**

Esperanto **Biofuelo**

Estonian **Biokütus**

Finish **Biopolttoaine**

French **Bio combustible**

German **Biokraftstoff**

Greek **Βιοκαύσιµο**

Hebrew **ביוֹלוֹגִיִּים דֶּלֶקִים**

Hungarian **Biüzemanyag**

Italian **Biocombustibile**

Islandic **Lífeldsneyti**

Latvian **Biodegviela**

Lithuanian **Biokuras**

Montenegrin **Biogorivo**

Polish **Biopaliwa**

Portuguese **Biocombustível**

Romanian **Biocombustibil**

Russian **Биотопливо**

Slovenian **Biogorivo**

Serbian **Биогориво**

Spanish **Informes técnicos**

Swedish **Biobränsle**