



About UOP

UOP products have changed the world. Today more than 60 percent of the world’s gasoline and 85 percent of biodegradable detergents are made using UOP technologies. For almost 95 years, UOP engineers and chemists have brought laboratory science to industrial reality by developing technologies, products and services that allow our customers to profit in a competitive marketplace. Our portfolio of refining, petrochemical and gas processing technologies, products and services addresses shifting demands around the globe including growing populations, changing environments, regulatory compliance challenges and more.

UOP and Renewable Energy

In late 2006, UOP announced the creation of a new business unit specifically focused on the development of profitable and efficient ways for refiners to convert bio-feedstocks like natural oils and certain waste products into valuable fuels and chemicals.

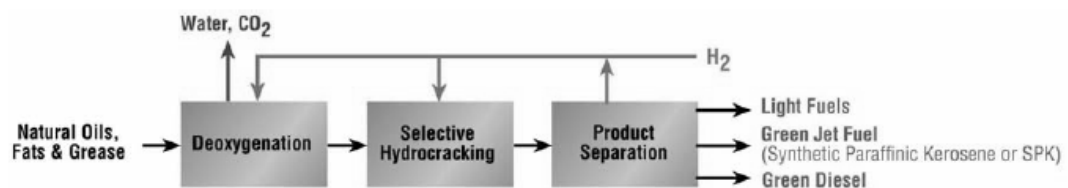
The business focuses on sustainable technologies that maximize use of existing refining infrastructure and transportation fleets while producing fuel with equal or better performance properties than traditional fuels.

UOP Green Jet Fuel Technology

In 2007 UOP was awarded a contract from the U.S. Defense Advanced Research Projects Agency (DARPA) for the creation of technology to produce renewable JP-8 fuel for use in military aircraft. The process developed has been successfully proven to meet all the critical specifications for jet fuel.

Through its relationship with Boeing, major airlines and aircraft engine manufacturers, UOP has extended this technology into commercial aviation generating fuel from second generation feedstocks like algae, jatropha and camelina for extensive analysis, engine testing and demonstration flights.

UOP's Green Jet Fuel Process



Green Jet Fuel Specifications

Property	Limits	Jet A-1 (Specification)	Renewable Jet Fuel from Jatropha (Actual Value)
Flash Point	Min	38°C	46°C
Freeze Point		-47°C	-57°C
Net Heat of Combustion	Min	42.8 MJ/kg	44.3 MJ/kg