

MAKING THE

SWITCH

to

BIODIESEL

ENERGY, ENVIRONMENTAL & ECONOMIC SECURITY

**DM
ME** Virginia
Department of
Mineral Resources
and Energy

 **USB**
UNITED SOYBEAN BOARD
Progress Powered by U.S. Farmers

 Virginia Clean Cities

BENEFITS *of* BIODIESEL

BIODIESEL IS COST EFFECTIVE

WORKS with existing engines, no new equipment necessary

COSTS about the same as diesel but may very slightly

IS USED in existing tanks and dispensers (pre-cleaning recommended)

IS MADE primarily from domestically produced soybean and waste oils. It can be made from non-edible feedstocks such as camelina or algae

SUPPORTS more than 39,000 jobs to meet the Renewable Fuel Standard (RFS) in 2012
This number is expected to grow to 74,000 jobs in 2015 *

ADDS \$3.8 BILLION to the nation's Gross Domestic Product and creates \$2.8 billion in household income (based on 2012 production levels)

BIODIESEL IMPROVES NATIONAL ENERGY SECURITY

PROVIDES an immediate solution to our energy security needs

RELIEVES PRESSURE on oil imports from the Middle East to maintain fuel diversity. The US spends \$1 billion per day and \$1 million per minute on foreign oil **

BIODIESEL IS CLEANER BECAUSE IT:

MEETS CLEAN diesel standards

IS DESIGNATED as an alternative fuel by the US Department of Energy and US Department of Transportation

REDUCES GREENHOUSE GAS emissions by 89% ***

IS APPROVED as an advanced biofuel by EPA to meet the RFS and can be blended at any level with diesel fuel ****

MEETS INDUSTRY lubricity standards by improving the lubricity value of the fuel, thereby reducing engine wear and improving operating costs



* (source: Cardno ENTRIX)

** (source: Energy Information Administration)

*** according to Argonne National Laboratory (Science Mag. Oct. 2011)

**** (see ASTM standards D6751 for B100, D975 for up to B5, D7467 for B6-B20, and D396)



Biodiesel reduces Greenhouse Gas emissions by 89%

Step by Step

BIODIESEL

Biodiesel is a renewable alternative fuel created from vegetable oils, animal fats, and greases through a chemical process. Biodiesel can be blended at any percentage with petroleum for use in diesel engines (check engine warrantee for recommended blend levels). Biodiesel, which contains oxygen, burns cleaner than petroleum and reduces greenhouse gases (GHGs). Produced in the US, it creates jobs, adds to local and national economies, and decreases dependence on foreign oil imports.



PREPARE

CLEAN your bulk fuel tank

REPLACE fuel filters after initial use in used vehicles

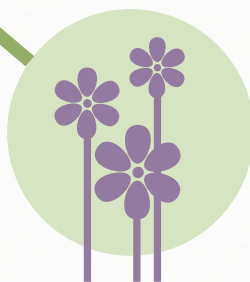


HANDLE & USE

REQUIRE THAT THE FUEL SUPPLIER guarantee their product by ensuring fuel quality; Use only ASTM certified fuel (D6751 for B100, D975 for up to B5, D7467 for B6-B20, and D396)

BUY BIODIESEL from a reputable source. If you are concerned about fuel quality, purchase fuel from a BQ-9000 supplier

BIODIESEL IS A CLEANING AGENT, which means petroleum deposits may end up in the fuel filter until the system is clean. Stick to your regular maintenance schedule



ENJOY the BENEFITS

LESS CLIMATE CHANGE. Biodiesel from soybeans and waste oils reduce greenhouse gases by as much as 98% according to the Argonne National Laboratory

LESS ACID RAIN. Biodiesel emits no sulfurous compounds which produce acid rain

LESS SMOG. Biodiesel reduces smog-causing pollutants and carbon monoxide by about 50 percent

LESS OIL IMPORTS. Every gallon of biodiesel used in America means one less gallon imported and more money in the US economy



LEARN MORE:

IMPORTANCE OF BIODIESEL FUEL on [biodiesel.org](http://www.biodiesel.org)

http://www.ehow.com/about_6515889_importance-biodiesel-fuel.html#ixzz25cUWtBCg

MAKING THE

SWITCH *to* BIODIESEL?

here...

IS HOW TO GET STARTED



Sign up for our emailing lists to
stay informed at: vacleancities.org



Read more at: biodiesel.org



Call Virginia Clean Cities at:
540-568-8896

BE PART OF THE SOLUTION!

