

This Free E-Book is brought to you by Natural-Aging.com.

100% Effective Natural Hormone Treatment
Menopause, Andropause And Other Hormone Imbalances
Impair Healthy Healing In People Over The Age Of 30!

Ethanol As An Alternative

By Simon Oldmann

Ethanol fuel is changing our lives and changing the economy in ways no one anticipated before,

with energy costs rising every day, there has been an increased interest in ethanol fuel. Ethanol is a variety of alcohol that can be produced in a natural fashion, similar to the way in which alcoholic beverages are produced. Ethanol can be used by itself in some specially designed vehicles, but it can also be used as a fuel additive, stretching traditional fuels in times of economic or environmental hardship. Ethanol is used today by more people ever before, simply because of the cheap alternative to the soaring gas prices.

Using ethanol fuel as an alternative to gas does require motorists to get a special ethanol kit and install it in their cars, but since gas prices have been unstable in the last years many people feel that making that kind of investment will prove financially profitable in the future.

Ethanol fuel that is derived from crops has advantages over traditional fossil fuels. The ethanol fuel is obtained from the sugars and starches in crops like corn and grains. It also burns cleaner than petroleum based fuels due to its chemical composition, alleviating some of the strain placed on the environment by exhaust emissions. The increased consumption of corn for ethanol use has already started to affect the corn farms projections of yearly crops.

Blended ethanol fuel has proven to be an effective source of energy for several parts of the country, as well as other parts of the globe. E10 is a typical mixture. It is common in the Midwestern United States. Many other countries around the world start to consider using ethanol instead of regular fuel, Denmark for example, has also begun using this type of ethanol fuel. It appears to be doing well, though its use is not as extensive as many of its proponents had hoped it would be. There is still a long way for ethanol to become a natural option for fuel, the United States had used ethanol fuel for less than one percent of its gasoline needs in the year 2002.

The other big issue surrounding ethanol is the environmental issue, it is still not absolutely clear that ethanol is in fact environment friendly, and whether the environmental aspects of ethanol fuel are as good as they have been previously described by the supporters of ethanol fuel use. The growing concern is that while the use of ethanol by itself may be good for the environment, the resources and

work done to provide the production of the ethanol could be potentially dangerous for the forests, rainforests and areas where the corn and other ethanol producing resources are being grown. While it is true that the fuel can be made from renewable resources there is evidence that some rainforests are actually being cleared to make space for crops that are used in the production of ethanol. As the controversy regarding the production of ethanol and its dangers, it is very clear that this alternative source of energy is becoming more and more popular.

Simon Oldmann is an avid writer and a green activist, he has been writing about Ethanol use since the growing popularity of Ethanol these last years, Simon writes for

<http://ethanol.zupatips.com>

Flex Fuel Vehicle And Ethanol

By Simon Oldmann

Flexible fuel vehicles are just like an average car in the sense that they use a single gas tank. But it can run on a mixture of gasoline and alcohol based fuel. Any car made after 1988 can run on a mixture of 10% ethanol and 90% gasoline. A flexible fuel vehicle can run on a mixture of up to 85% ethanol. Modifications are needed for this ratio as alcohol based fuels are corrosive.

Fuel tanks and engines must be modified in flexible fuel vehicles. In the US, there is a special indicator used that analyzes the ratio of the mix and adjusts itself accordingly to make sure that the fuel is burned clean. This is done by adjusting the timing and the fuel injection and happens automatically. Many flexible fuel vehicles are also required to use a special engine oil.

Why use ethanol?

Ethanol offers motorists an environmentally friendly alternative to using fossil based gasoline fuels, since ethanol is much more environmentally friendly and a renewable resource it seems to be an ideal alternative fuel for an environmentally friendly motorist. Studies show that using a mix of 10% ethanol reduces carbon monoxide levels by up to 17% , CO₂ emissions by 4.2% and hydrogen emissions by up to 5%. By using a mixture of 85% ethanol greenhouse gas effects are reduced by up to 37%

What countries are using ethanol fuel?

There are three countries currently using ethanol in their vehicles – US, Brazil and Sweden.

* Brazil has been using ethanol mixtures in their fuel since the 1970's and it is required by law that all fuel mixes be at a ratio of 29–25% ethanol.

* Sweden is the only country that has flexible fuel vehicles in Europe, although there are plans to introduce fuel mixes of up to 85% in other European countries.

* US has many cars designed to run on 85% ethanol fuel mixes. These flexible fuel cars make up 4

Ethanol As An Alternative

million of the cars in the US, although less than 1% of these vehicles are currently running on a mixture of 85% ethanol.

The future of ethanol based fuels

At the moment the future of ethanol fuel mixtures seems a little bleak. Until the fuel companies can make the mixtures of gasoline and ethanol fuel mixes more efficient and provide a superior mileage, people will still continue using gasoline and small mixes of ethanol such as a 10% ratio. Once this obstacle has been corrected, ethanol will be more widely used in flexible fuel vehicles.

There is potential for future growth in the ethanol industry. Last year an energy bill was created that is calling for refiners to begin using more renewable fuels. The national ethanol industry currently produces more than 4 billion gallons of ethanol fuel per year with more plants being built all the time. The ethanol industry is definitely set to sky-rocket in coming years.

Simon Oldmann is an avid writer and a green activist, he has been writing about Ethanol use since the growing popularity of Ethanol these days, Simon writes for

<http://ethanol.zupatips.com>

at

<http://ZupaTips.com>

.



This Free E-Book has been brought to you by Natural-Aging.com.

[100% Effective Natural Hormone Treatment](#)
Menopause, Andropause And Other Hormone Imbalances
Impair Healthy Healing In People Over The Age Of 30!