Jatropha produces more oil per hectare than almost any other plant. One hectare of jatropha bushes produces 2.7 tons of oil and four tons of biomass. An 8,000-hectare plantation produces enough material to run a 1.5 megawatt station with enough power for 25,000 homes. This is 785 gallons from an acre. The U.S consumed about 64.3 billion gallons of finished motor gasoline in 2008.

It takes 81 million acres of jatropha to make enough oil to fuel America. Nevada is 71 million acres total. If we take the unused lands in America to plant hybrid cold weather Jatropha in just Utah, Nevada, Wyoming, Colorado, Arizona and New Mexico there is more than enough to end the USA dependence and enough extra to sell to the rest of the world at a very good profit. Jatropha fuel would be less than half price of conventional fuel, and eventually even less as volume of use increases.

There is enough empty farm land in the Ukraine or Spain to supply most of Europe with oil if we would plant Jatropha. Africa and Australia have enough land mass to make quality clean fuel for the world. But this would mean a dramatic financial power shift.
Jatropha burns 90% Cleaner than Dirty drilled Oil. When we plant and grow Jatropha the plant takes in CO2 and gives off Oxygen. So we end the oil and pollution crisis. But then big oil and the mid-east cartel will suffer and they do not care about the planet. They care only about money.

Jatropha needs only simple table top extraction to make viable Deisel oil ready for the car or plane , So Why not ???

**Resources for Biodiesel**

Yield per hectare in liter*

<table>
<thead>
<tr>
<th>Plant</th>
<th>Yield per Hectare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Palm</td>
<td>7,133</td>
</tr>
<tr>
<td>Coconut</td>
<td>3,223</td>
</tr>
<tr>
<td>Jatropha</td>
<td>2,263</td>
</tr>
<tr>
<td>Olive</td>
<td>1,450</td>
</tr>
<tr>
<td>Canola (Rape)</td>
<td>1,427</td>
</tr>
<tr>
<td>Sunflower</td>
<td>1,146</td>
</tr>
<tr>
<td>Soybean</td>
<td>541</td>
</tr>
<tr>
<td>Corn (Maize)</td>
<td>200</td>
</tr>
</tbody>
</table>

*Under optimal conditions  Quelle: Phillips McDougall, January 2008  Copyright © Bayer CropScience
- Jatropha grows well on low fertility soils however increased yields can be obtained using a fertilizer containing small amounts of magnesium, sulphur, and calcium.

- Jatropha can be intercropped with many cash crops such as coffee, sugar, fruits and vegetables with the Jatropha offering both fertilizer and protection against livestock.

- Jatropha needs at least 60 mm of rain annually to thrive however it can survive three years of drought by dropping its leaves.

- Jatropha is excellent at preventing soil erosion, and the leaves it drops act as a wonderful soil enriching mulch.

- Jatropha prefers alkaline soils.

- The cost of 1000 jatropha saplings (enough for one acre) is around US$75 or just 7 cents each.
- The cost of 1kg of jatropha seeds in India is around 12.5 US cents.

- Each jatropha seedling should be given a 2m x 2m area to grow into.

- 20% of seedlings planted will not survive.

- Jatropha seedlings yield seeds in the first year after plantation.

- After the first five years, the typical annual yield of a jatropha tree is 3.5kg of beans.

- Jatropha trees are productive for up to 30-40 years.

- 2,200 trees can be planted per hectare (approx 1,000 per acre).

- 1 hectare should yield around 7 tonnes of seeds per year.

- The oil pressed from 4kg of seeds is needed to make 1 litre of biodiesel.

- 91%+ of the oil can be extracted with cold pressing.

- 1 hectare should yield around 2.2-2.7 tonnes of oil.

- Press cake (seedcake) is left after the oil is pressed from the seeds. This can be composted and used as a high grade nitrogen rich organic fertilizer (green manure). The remaining oil can be used to make skin friendly soap. The seedcake can also be used in our waste to energy technology to generate green electricity or syngas.
• One job is created for each 4 hectares of jatropha plantation.

• The average agricultural worker earns a sustainable wage per month.

• Biodiesel costs around 25-30¢ per litre to grow and refine in developing countries.

• Glycerol, a by-product of biodiesel refinement, can be sold to various industries.

• One hectare of jatropha plantation yields US$550 / year.

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Malaysia
jatropha trial with small holders

Kota Marudu

Sabah

Sarawak

Peninsula

Borneo

Biopact, 2007, cc
The following stats come from Green NRG Oils – the biodiesel division of Global NRG Ltd:

- Crushing 1 tonne of Jatropha seeds costs around $40.
- 1 tonne of seedcake (the leftovers after pressing) can be sold for $100.
- The transport costs of shipping 1 tonne of jatropha from Malaysia to Northern Europe is $100.
- The landed cost of 1 tonne of jatropha oil to Northern Europe is between $348 and $400.
- Refining jatropha oil into biodiesel costs less than $125 per tonne.
- Filtered jatropha oil can be used as is in many diesel vehicles (as SVO) with only small modifications required to the engine.
- Jatropha oil can be used as a kerosene substitute for heating and lamps.
- Jatropha is also used in the manufacture of soap.
- Jatropha oil burns with a clear smokeless flame.
Jatropha Oil and Biodiesel

With some modification it is possible to run many diesel engined vehicles on unrefined vegetable oil. The oil needs to be pre-heated, and well filtered before use to prevent coagulation. Biodiesel is the name given to any diesel equivalent biofuel which can be used in an unmodified diesel engined vehicle.

In general biodiesel is most commonly made with a mixture of vegetable oil and methanol. With a flash point of 160 degrees C it is classified as non-flammable, and it is also biodegradable and non-toxic. On its own biodiesel has much lower emissions than petro-diesel, and it can also be mixed with petro-diesel to reduce emissions. B20 for example is a fuel containing 20% biodiesel and 80% petro-diesel. Pure biodiesel is B100.

Biodiesel is a form of Bio-fuel made by ripping apart the fat molecule to release three free fatty acid esters, and a sugar called glycerol, which is a waste by-product. It is chemically called Free Fatty Acid Methyl Ester. It can be made from processed organic oils and fats. It may be burned in normal diesel engines like normal mineral diesel, and its use does not pollute the atmosphere nor add to the causes of global warming. Processing detaches the three hydrocarbon chains to make Biodiesel, and glycerine. The Biodiesel is washed and dried, ready for use. The glycerine can be used to make soaps or fermented to make ethanol which is re-used to make more Biodiesel, or it can be burned as a heating fuel.

Biodiesel reduces carbon dioxide emissions by 78%, and carbon monoxide emissions by 50%. It also completely eliminates sulphur emissions.

For vehicles made before the early 1990's there is a problem with the use of biodiesel. The rubber hoses and gaskets used before that time can degrade in the presence of biodiesel. Newer cars have synthetic hoses and gaskets, and of course older cars can have their hoses and gaskets replaced before biodiesel is introduced. Biodiesel is also more solvent than petro-diesel and so it will rapidly break down any deposits of old residue in a vehicle's fuel lines and fuel tank and clog the fuel filter. Therefore, after making the transition to biodiesel it is important to change the fuel filter around 1000 miles after switching.

Usable biodiesel has a density of 0.86-0.92 g/ml (grams per millilitre - pure water is roughly 1g per ml).
Jatropha burns 90% Cleaner than Dirty drilled Oil. When we plant and grow Jatropha the plant takes in CO2 and gives off Oxygen. So we end the oil and pollution crisis. But then big oil and the mid-east cartel will suffer and they do not care about the planet. They care only about money.
Oil Drilled from the Ground is Expensive and Very Dirty so It Pollutes the Air we Breathe

Oil Drilled from the Ground Destroys Oxygen and makes excess Carbon Dioxide
Oil From Plants
Reduces CO2
makes Oxygen
and is Clean
for our
Environment
For the investment of just 2 billion the world could switch easily to clean agrarian fuel away from dirty pollution drilled oil. Go from a broken cycle of diminution, pollution, oxygen depletion, carbon dioxide build-up, impending doom,

To then have:

A replenishing closed cycle, to protect and provide lower cost fuel to save the planet and save money.
Return to the Garden

Average Big Oil Campaign Contributions to Senators Voting For the Energy Bill: $67,966

Average Big Oil Campaign Contributions to Senators Voting Against the Energy Bill: $195,973
Big Oil War Machine
The Angel enacting Solution is a Danger to the Faceless Ultra Rich Illuminati

The Future of the Planet depends on the Release of the GREED, ANGER,
The Black Horse is Everywhere

Petroleum
BLACK-GOLD BLUES
Discovery backs theory oil not 'fossil fuel'
New evidence supports premise that Earth produces oil

Posted: February 01, 2008

By Jerome R. Corsi © 2011 WorldNetDaily.com

Oil is NOT from Fossils

A study published in Science Magazine today presents new evidence supporting the abiotic theory for the origin of oil, which asserts oil is a natural product the Earth generates constantly rather than a "fossil fuel" derived from decaying ancient forests and dead dinosaurs.

The abiotic theory of the origin of oil directly challenges the conventional scientific theory that hydrocarbons are organic in nature, created by the deterioration of biological material deposited millions of years ago in sedimentary rock and converted to hydrocarbons under intense heat and pressure.
Problem

The World’s Problem is too much Carbon Dioxide + too little Oxygen.

Solution

The Solution is Plants

According to Quantum Electro-Dynamics, plants take CO₂ and convert it to O₂. We must encourage every and all plants, stop wasting good farmland anywhere; use our deserts to develop large desalination plants that use the sun to desalinate sea water and use the water to grow plants HYDROPONICALLY.

In the Garden of Eden the Serpent tempted the woman and the man. They gained knowledge, but lost innocence.

Mankind has developed many false beliefs based on the promise of this knowledge. These false beliefs have jeopardized the planet. False beliefs such as synthetic drugs and foods, that petroleum should be our fuel, allopathic medicine, tobacco, dextrose sugar, meat as a staple food, unequal education to keep minorities down, the survival of the fittest, and that the media is real and unbiased. In fact these false beliefs make money and greed become uncontrollable. Money is a drug.

Now at the time of change, an Angel of both sexes will tempt the serpent. The serpent is the base lizard brain in all humans. This lizard brain is the source of anger, hate, aggression, greed, and the delusion and clinging to false beliefs that make money but threaten the very existence of human life on this planet. The Angel will defeat the greed and delusion of the lizard brain and lead humanity to a thousand years of peace, harmony, freedom from excess degenerative disease, excess greed, discrimination, and inequality.

The Angel will return us to the Garden of Eden.

1. We must stop the over consumption of meat and switch to the more health fruits and vegetables. Wake up people’s minds.
2. Switch from fossil fuel to Bio-fuels and Bio-mass fuels.
3. Limit petro-synthetic chemical production and use organic chemicals from plants such as sugar or herbs.
4. Use dextrose sugar for Batteries, and fructose sugar for foods.
5. Use more Natural Medicine by changing the law to not just protect Patents but to protect Natural Recipes and Natural Made Medicines.
6. Stop the Danger of GMOs to destroy the balance