



BioOil Indus

facilitating the transform process of abandoned cotton plantations
(and in second phase also destroyed landscapes, deserts and tundra's)
into more divers bioculture based bio-energy production farms

Due many reasons (price drop of cotton of more than 60% since 1995, political changes since 1989 and water supply problems connected to cotton plantations) worldwide large, very large area's of mono-cultural cotton focused agriculture soil has been abandoned.

These large area's are in deep, deep irreversible trouble: ecological due to erosion (which turns the landscape into dessert-like status) by stop of water based agriculture and economical by lack of substitute income for the population that lived their during cotton production.

These by cotton growers abandoned area's are very suitable for bio-energy focused crop production: Simple because there is already infrastructure and there are already qualified workers. The infrastructure in terms of irrigation, roads, railways and pressing plants. The workers in terms of those who not have left these area's to go the cities and started there all over again in poverty.

Transforming these abandoned cotton plantations into bio-oil production plantations will revitalize these many huge area's in the world. Erosion will stop, work will come back, bio-diversity will take place and of course: bio oil will be produced financing these developments.

Take rainforest down for new bio-oil plantations is not a wise thing to do. Not for the planet, not for the soil concerned and not for the Indians who live there. Recycling abandoned cotton plantations is a wise thing to do with only positive effects on planet, local nature and local society. Just like city counsels re-use old industrial area's, governments should re-use bankrupted foreclosed old cotton area's.

Of course we use crop that uses a less water as possible, of course we use as less as chemicals as possible, of course we stimulate bio-diversity (large mono cultures are biological -and by this also economical- to versatile) and yearly different crop cycles and of course we try to respect nature more than the cotton plantations have done in the past. Also we will use different type of oil producing crops so we don't have to deal with an only by heavy use of crop protecting chemicals possible monoculture production.

BioOil Indus facilitate some extra energy production for the world, we preserve area's that now suffering from erosion, we create jobs in rural area's, we stimulated bio-diversity, we develop/support the whole production chain from abandoned land to train wagons of bio-oil leaving for the market, we use also the crop waste for bio-ethanol production.

BioOil Indus her bio-plantation projects are whole regional development plans for lost area's funded by the sales of bio-diesel and bio-ethanol and glycerine (which will become rapidly a new type of fuel for medium size local power plants) on the energy market. Economical developments supporting/facilitating social developments. Energy revenues funds economical, social and ecological development. BioOil Indus will replace the crazy Large Farm Enterprise (LFE) model (by critics called even more idiot than the sovjet system of Kolkhoz's -average size of 62 km²- and Sovkhoz's -average size of 153 km²-) by a collection of smaller by locals private owned farms, which can be operated by one of two families (which can rent or buy with mortgage the land) and we make the necessary facilities. Developing the lost regions of the world, by making them healthy and divers strong areas with (ecological) production of bio-oil and bio-ethanol as economical head start (or motor) is our goal.

As example concerning the local production of the bio-oil refinery: For manufacturing BioOil Indus offers the local projects a total package of drawings and data sheets with the help of which they can set up the plant. These are offered in Acrobat (.pdf) format and as AutoCAD (.dwg) format. These include: Process & Instrumentation Diagram. Fabrication drawings of Vessels. Data sheets for Pumps, compressor, micron filters and electrical heaters. Data sheets for valves, flow glasses and temperature indicators. Detailed plans for erection of the equipments. Piping plans. For operation BioOil Indus offers process description and operating manuals. This way project can set up their plant with fabrication of vessels from their own (to be installed) fabricator in their own town/region.

BioOil Indus don't destroy local and global high valuable rainforest for agricultural purpose, don't threaten local (original) people, don't want to be focused massive on mono-culture, don't steal water from other regional stakeholders, don't pollute local environments with chemicals, don't increase food prices by lowering local, regional, continental or global food production capacity by the choice for only re-use of abandoned former agriculture land and last but not least integrate bio-oil (bio-diesel) with bio-mass (bio-ethanol) processing, which take out the need for external alcohol supply in the bio-oil refining process.

Our first two large scale projects maybe will be located in the rural Ceará Province of North Brazil. The size of the first bankrupted and after that abandoned farm is 330 km² (the size of a proximal the west part of the of the mainland of Flevoland) and the size of the second bankrupted and after that abandoned farm is 470 km² (the size of a proximal the east part of mainland of Flevoland). We now investigating the possibilities of the transforming of these two abandoned cotton plantations into active bio-oil plantations including local processing of the seeds of the mamosa into bio-oil and the remain bio-mass into bio-ethanol. Mamosa is an authentic/local/ancient inca version of the castor bean plant which is very rich on oil and demands less water, give two not season bounded -makes continues production process possible- harvests a year. But parallel and serial bio-diversity (more type of crops, so that each crop returns only one in three or four years to the same soil) must be investigated.

The benefit of abandoned cotton plantations for bio-oil farms use, is that railway infrastructure, water infrastructure, press plants and workers are already available. This is an advantage because BioOil Indus wants to provide the whole necessary chain from seed/land to bio-oil and bio-ethanol sales.

Further we think that tundra's has huge bio-energy future in the long day half of the year (requires a more light than warmth demanding specie), if we search for and cultivate a cold resistant oil producing crop. The grow process will be substantial slower, but because soil price is no issue here, that's not a problem. For PR reasons we will try to convince the government of Russia to give the former shareholders of the Trans Siberian Express railway a 'discount' on shares on these farms. This would a enormous publicity stunt for us, Russia and the Trans Siberian Railway company (who will handle the oil cargo). The Russian Federation only will do this if they are certain that no 1917 originated claims will get alive again. Russia and it's president Putin (or his successor) really need some positive signal to global investors and the global financial world after the privatisation drama (which has build and end companies Yukos) and both side robbery before and after that.

But we really think the biggest future for bio-oil is in the current greenless desert regions. BioOil Indus has developed an energy neutral mostly passive (by physical laws working) water condense industrial plant concept that splits salt seawater into sweet water and dry salt. The desert concept of BioOil Indus works from the borders of the deserts into deeper into the deserts. The only think that's needed is a railway from a sea harbour to desert which transports first the building material and than seawater to the desert plants and transports salt and bio-oil and glycerine (which soon will be used for special -high temperature: glycerine needs that for clean burning- power/electricity plants) and maybe other vegetable, fruits and flowers back to the sea harbour for local city and export purposes. The side effect of these development is less heat on the day and less cold in the night in these production area by the warmth adopting capacity of water.

There are lots of huge (these days not more used) former cotton and desert/tundra area's in South America, Africa and of course in the very large abandoned cotton area's of the former USSR (which are by erosion coursed environmental disasters these days) where BioOil Indus can serve. We will promote our business model both in the FAO (Food and Agricultural Organization of the UN) en the WTO (World Trade Organization of the UN), as in the UN main organization and by the World Bank.

We will seek as much as international media attention as possible both for the BioOil Indus organization and it's function as for bio-energy and the energy problem in general. This will support our business case enormously and give us also extra (requested) knowledge support.

We know for sure that our income model will increase each year. The oil price is in a never stopping structural rising line. This increasing will speed up when Peak Oil will happen. PeakOil is the name of a theory in the world wide energy market that around the year of 2010 oil prices will begin a never ending rapidly rise (till all global resources are used a proximally around the year of 2040). This abnormal price rise will be coursed by increasing demand of developing countries like China and descending supply by drying of current mayor and new easy to explore fields. PeakOil will make everything that heavily uses energy parallel (by the increasing energy cost facet) rapidly expensive.

We know for sure that bio-oil is certainly not the solution for the energy problem. The one and only solution for the energy problem is a low energy focused economy, which the rise of the oil price will simple by give by market mechanism (high price in dollars say so much more than any type of communication).

BioOil Indus don't want to reinvent colonialism, but just wants to develop technology and services that are needed: BioOil Indus wants to be a development focused industrial bio oil production supporting conglomerate that just takes 5% margin on all her (not mandatory) offered technology and services for her further research, current over head, further reserves and profit. BioOil works with every her services and products requesting person, company or government.

Preventing climate change is not our mayor driving force (but certainly one of our drives). We are initial driving by the proven and simple to understand economical and scientific fact that easy to explore fossil energy is running out in high speed and this will increase the energy prices dramatically the next, certainly with the extra facet of an enormous increasing global demand with equal or descending fossil oil supply. Exploring cost and market mechanism will certainly give much more high energy prices till fossil energy is completely used 30 years from now. The impact of rising energy prices on the economy are beyond imagination. BioOil Indus is in the right industry on the right time. Our function contributes in solving the CO², erosion and development issues. The CO² absorption cycle is short (a 6 months average), but by the tremendous volume of this cycle, certainly CO² absorption values can be one time sold to companies with to much CO² emission. The commercial value of this CO² absorption has a very positive capital funding effect on the start of the Oil/Energy for Development / BioOil business case for developing the lost areas of the world.

Economical Development Corporation (as owner of Indus Corporation which owns BioOil Indus) will install an independent NGO (Non Governmental Organization): Oil/Energy for Development who does the development deals with GO's of the served countries and is free to use other companies like BioOil Indus. Efficiency only comes with real (and so definitely hard) competence.

This organizational architectural dividing give internal competence and is a perfect build-in insurance for getting the performing of both organizations on the edge of maximal efficient performance for targeted regions. The three layers in the BioOil model are making each other stronger: BioOil Indus (management, technology and services), Oil/Energy for Development (auditing the direction and the results) and local, regional, national, continental and global governmental organizations (who wants the combined deal of Oil/Energy for Development and BioOil Indus).

Oil/Energy for Development will have as structure: Governmental (local, regional, national, continental, global), Capital (guarantees, subsidies, loans, bonds and emissionfees), Operational (LFE to farmers development, biodiversity development, trade development, infrastructure development, community and/or village development, small industrial development and tourism development), Management (project support and project management) and General (management, office, facilities, legal and press).

BioOil Indus will have as structure: Crop (maximalization and rotation), Technology (bio-diesel, ethanol, water, desert and trade) and General (management, office, facilities, legal and press).

Both Oil/Energy for Development as BioOil Indus have a knowledge development and sharing part and a management acting and sharing part. Maybe knowledge and management must be divided in both organizations. The knowledge part should maybe be adopted by universities (as already capable of research and education institutions). Both Oil/Energy for Development and BioOil Indus are capable of gaining large numbers of students all over the world. Education is business. Ask any university.

The region that gains both Oil/Energy for Development and BioOil Indus will gets 4 companies (from both the knowledge and the management organization) with an large potential of global impact.

We will ask both Wageningen Agricultural University / Research Center, the Nyerode Business University Holland and other universities for high quality students who wants to do their (biological, technological and business case) research for their graduation within the energy revenue based development projects that are offered to us by governments.

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BioOil Indus is a project of Economical Development Corporation