InLightMe – Trading Company

Company brief

Author: Mr. Yariv Shabtay

InLightMe – Trading Company

Company brief

Chapter No. 1

Introduction

Chapter No. 2

Bio-diesel market

- Feedstock
- By products
- Production materials
- Bio diesel – end product

Chapter No. 3

Other veg based products

- Waste products & residues
- Burning oils
- Bio esters

Chapter No. 4

Renewable chemicals

Chapter No. 5

Bio-ethanol feedstock

Bio-gas production materials

Chapter No. 6

Vegetable oils for human consumption

Other products

Chapter No. 7

Animal and fish feed

Chapter No. 8

nButanol – renewable chemical and petroleum

Chapter No. 9

WTE – waste to energy projects

Chapter No. 10

What we looking for…

Introduction

Greetings,

InLightMe in an international trading company based in Israel.

We set our goal to connect manufactures worldwide to all kind of buyers.

Our company believes that transparency is the foundation to a trusty work between buyers and sellers. All of our seller are vetted and can perform, we are doing our best to ensure that you as a buyer will have as many options as possible from our sellers for you to choose whom you would like to work with and who suits your demand.

For our sellers we are doing our best to ensure the buyers we bring to their table are firm and can perform. Business over the internet had become a gold mine for scammers and frauds, we here at **InLightMe – Trading company** do our best to ensure no such thing will pass our threshold.

We are in direct contact with fraud hot-lines all over the globe, mostly Russian refineries which their documents are mostly used to scam innocent buyers. We also as part of our vast network can use our personal links to other companies to check about one's reputation and past performance.

We do our best to make sure the parties we introduced to each other passed our due diligence process and if no such DD was preformed we make sure all our sellers issue the safes payment terms and on the other hand we ask the buyers to issue the seller on first notice any documentation of his financial capabilities.

Since I started the trading business I found out about the wonders of the internet… the good things and the bad things and by using the good things I was able to establish a vast network of buyers and sellers that I work with closely and personally providing them the best service I can.

We entered the renewable energy market focusing on a small portion of it… Our main focus is in the bio-diesel market including all the sub-markets that comes along with it like by products, feedstocks and more.

As we marched along that path we came across some new and inspiring opportunities to expand our variety of products and sub-markets like bio-ethanol, bio-gas and what I believe will be the next "bio-trend" which is Bio-chemicals.

I welcome you to contact us and see for yourself what we can offer you.

Again we here at **InLightMe - trading company** believe in transparency between the buyer and the seller and we will do our best to negotiate between the parties till both sides are satisfy.

I'm available for any question, comment and information Hope we can do great business together…

Bio-diesel market

Bio-diesel market is growing each year as a new substance for the traditional fossil fuel which his availability and price are subject to international politics rather than to market's supply & demands.
Add to that the most important issue which is "saving earth" from the disadvantages of fossil fuels… so, here you go… Renewable, green, earth friendly, waste recycled fuel that is becoming a major "actor" in our energy world.

Here at InLightMe we try to cover all aspects of bio-diesel manufacturing from feedstocks throw additives and by products to a variety of end products based on different feedstocks and different grades (virgin, blended…).

Feedstock

Bio-diesel among other things in this world is evolving day by day, year by year.
We started with what is known as 1st generation biodiesel basically made out of used cooking oil, virgin vegetable oils like : corn and soybean and more.

The 2nd generation feedstock is based on high FFA levels as opposed to for example UCO demands for 1st generation which is FFA<5% .

Also 2nd generation feedstock has a larger variety of products and even 1st generation can become a 2nd generation once it is no longer fit for human consumption like TCO (Technical Corn Oil) and CDRO (Crude Degummed Rapeseed Oil)…

Here at InLightMe we try to provide as many feedstocks as we can so our door can be open to any bio-diesel manufacturer without restrictions as much as possible.

We can offer you the following feedstocks:

1. Fish oil (waste, crude, stearin, refine)
2. Palm based products : CPO, PAO and PFAD (70-90% FFA)
3. CDRO (10-300ppm)
4. **NEW!!** Crude Camelina oil
5. CDSBO (Crude degummed soybean oil)
6. High level FFA veg based oil (Pitch oil, waste products…)

There are more feedstocks falling under the definition of 2nd generation and we here at InLightMe try all the time to find new sources for new feedstocks for our widely spread buyers all around the world.

By products

Bio-diesel byproducts are numerous but yet they are a foundation for a big industry and a big market based on those byproducts.

We can offer you the following byproducts:

1. Glycerin at all grades (crude, refined, feed, USP, EP...)
2. Recovered methanol

Production materials

Bio-diesel = oil + methanol + catalyst.

That is the basic formula to make bio-diesel. The inputs a manufacturer put in to those variables makes the difference between one bio-diesel to another.

We can offer you the following products:

1. All types of methanol (Virgin, recovered, wood alcohol and synthetic).
2. Sodium and Potassium hydroxide
3. Sulphur acid

Bio-diesel as end product

As part of our business and personal relationship with bio-diesel manufacturers around the world "feeding" them with our feedstocks and production products we enjoy the symbiotic relations allow us to offer a variety of bio-diesels for the end-user.

We can offer almost any bio-diesel known in the market.
We can offer almost any blend-grade (mostly common in the US rather than in Europe and Asia) from B10-100.

We can offer: FAME, SME, RME, UCOME, PME, and POME...

So you name it, we get it...

Other veg based products

Among our common bio-diesel feedstocks we also have other veg-based-oils which origin in other processes like distillation, waste, refining and more...

Waste products & residues

As part of any manufacturing process (not necessarily oil or bio-diesel) there are always "left-overs" that can be defined either as waste or residues.
Old American saying is : "someone's trash is another one's gold" (Ask eBay.com) so there will be always a demand for those wastes and residues as long as you know what your buyer want and what your seller have.

Big advantage of those oils is the price which is relatively low opposed to other feedstocks but his 2 biggest disadvantages are the low quantity and the ability to maintain some of the specifications in a reasonable boundaries / limits.

Our waste and residues origin in veg-based processes (we have some with mixed with animal fat or palm also).

Most of the waste and residues are used as "green" burning oil for heating processes BUT there are good opportunities with the right technologies to use those products as a feedstock for bio-diesel production.

We can offer you the following products:

1. Waste Acid Oil (WAO)
2. Mixed Distillate Fatty Acid Bottoms
3. Recovered esters (Bio esters)
4. Other waste oils

Burning oils

Like I wrote above, most burning oils are waste and residues that you basically can't do anything with it so you burn it... As long as it has the minimum calorific value you need to heat whatever you need to heat in the process.

Come to think of it, this can easily be a green substance for mazut , diesel, coal or any other fossil oil that is used to heat water (for example...) So we at InLightMe set our goal to insert

those green burning oils to green electricity plants where heat is one of the main processes if not the mainly one.

We also have access to more solid biomass called "CAKE" which is basically the solid material left from crushing and refining veg oils like sunflower, rapeseed and more.

Again, the biggest advantage is the low price of those oils. On the other hand the low quantity can be a problem for large scale clients who rely on constant and large volume quantity entering their factory.

We can offer you the following products:

1. FAME Distillate Residues (FDR)
2. Cashew Nut Shell Liquid (CNSL)
3. Mixed Distillate Fatty Acid Bottoms
4. Other veg-based burning oils
5. Veg-based "cakes" like: rapeseed cake, Sunflower cake and more...
6. Solid bio-fuel (biomass)

Bio esters

This product doesn't fall into the definition of waste nor residue; also it is not burning oil.

This oil can either be used as a high quality feedstock, but that would be a waste of good product.

The other use is as a biofuel. In the words of Dr. Long, head engineer of Colabitoil, Sweden: ***with this kind of purity, I guess it may not need upgrading, because it may already be a very high quality of renewable fuel oil.***

The oil is origin in Soy feedstock, part of SME production in the US.

Specifications

Character	Value
FFA	2.8%
Iodine	> 80
Water	< 0.1
Density at 15 Deg (c)	914.6
Na + K	12 mg/Kg
Ca + Mg	1 mg/Kg
P	11
S	185
Color	Dark brown

Renewable Chemicals

This growing market is making is baby steps as we speak. A derivative of market's will to reduce the use of fossil oils is the will to reduce the use his chemical-based products.

For example the polymer industry uses a lot of chemicals based on fossil oil like Benzene, Benzoyl, and more.

So we here at InLightMe want to set our foot into this immerging market along with our colleagues around the world. The firm based we have in the renewable energy market is already a good right-leg start.

We (for now) offer a product called: Cashew Nut Shell Liquid (CNSL).

What is CNLS?

This oil is extracted from the SHELL of cashew nut (this is not cashew nut oil as peanut oil or sunflower oil…).

What can we do with CNLS?

CNSL has innumerable applications, such as friction linings, paints, laminating resins, rubber compounding resins, cashew cements, polyurethane based polymers, surfactants, epoxy resins, foundry chemicals, and intermediates for chemical industry. It offers much scope and varied opportunities for the development of other tailor-made polymers.

CNSL undergoes all the conventional reactions of phenols, CNSL aldehyde condensation products and CNSL based phenolic Resins are used in applications such as surface coatings, adhesives. Various polyamines synthesized from CNSL are used s curing agents for epoxy resins. CNSL and its derivatives have been used as antioxidants, plasticizers and processing aids for rubber compounds, modifiers for plastic materials and used to provide oxidative resistance Sulphur-cured natural rubber products. It is also added to rubber gum stock or nit rile rubber to improve the process ability, mechanical properties and resistance to crack and cut properties of the vulcanizes.

A number of products based on CNSL are used as antioxidants, stabilizers and demulsifies for petroleum products. Soluble metal derivatives of CNSL are used to improve the resistance to oxidation and sludge formation of Lubricating oils. Oxidized CNSL and its derivatives are also used as demulsifying agents for water in oil type petroleum emulsions.

CNSL or cashew nut shell liquid used for manufacturing of CNSL Resin, Cardanol or Card Phenol or Cashew Phenol, Cashew Friction Dust, Anti corrosive hiring (lining) chemicals, Paints, Varnishes, Enamels, Insecticides and Fungicides, Cashew Lacquers, Bakelite, Electrical

conductress, Cashew Cements, Core Oil, Red Oxide, Wood, Fuel, Specialty Chemicals, Foundry Chemicals and many other Industries."

Cardanol - Cashew phenol popularly known as Cardanol or Card-Phenol manufactured from cashew nut shell liquid (CNSL). It is a monohydroxyl phenol having a long hydrocarbon chain (C15H27) in a meta-position. The products obtained from CARDANOL have many advantages over these manufactured from other substituted phenols. It is therefore widely used in the manufacture of surface coating, insulating varnishes, Epoxy and oil soluble resins, laminates, rubber and wax compounding, pesticides, Foundry, dyes etc.

Residol or Residue or Residual obtained as a byproduct during the CNSL process often separating the monohydroxyl phenol. Thick product is highly reactive, homogeneous and natural phynolic material which is playing interesting role in industry. Residol is used with great advantage for the manufacture of high quality yet economical surface coating. Oil soluble resins, varnishes, lacquers, and points clutch facings breaking compositions for preparation of foundry core oil and binder lamination and other allied products.

Bio-ethanol feedstock

We at InLightMe as part of our vast network of buyers and sellers came across an opportunity to supply feedstock to what I call the "sister" of bio-diesel... the bio-ethanol.

Those to parallel fields enjoy the same basic principles of making "power fluids from vegetables".

Ethanol is commonly used in the US mainly mixed with other fossil oils known as E15, E85 much like bio-diesel grades B15, 30, 100...

The most common feedstocks for ethanol around the world are sugar (South America) and Corn (North America and Europe) but the basic idea behind ethanol production is having a feedstock rich in what we call "sugar".

Some feedstocks are richer than other much like bio-diesel feedstocks, for example sugar canes vs. potatoes, corn vs. wheat and more.

We at InLightMe can offer you now days CASSAVA ROOTS for bio-ethanol production.

Here are two links to articles discussing the usage of cassava for bio-ethanol:

Link No. 1

Link No. 2

Bio-Gas production materials

We at InLightMe as part of our vast network of buyers and sellers came across an opportunity to supply production materials for the bio-gas industry, similar to the ones we offer to the bio-diesel industry.

We learned the bio-diesel by products and other waste & residues can be used in the bio-gas industry as part of the manufacturing process.

Glycerol's phase

A liquefied byproduct of bio-diesel production. It contains mainly Glycerol, Methanol and Fatty Acids. All those materials can be further processed to put in use for other applications. The Glycerol can be used in the bio-gas industry.

Soapy water

The washed residues from the bio-diesel tanks can be used to reduce the PH level for raw materials feedstocks put into bio-gas production.

Crude glycerin (80% and 60%)

This main byproduct of bio-diesel production is widely used in the bio-gas industry.

Lecithin sludge

This so-called sludge is born out of the degumming process of crude vegetable oils. Due to his high bio-gas potential it is used to strengthening the anaerobic fermentation process.

Animal and fish feed

We at InLightMe as part of our vast network of buyers and sellers came across an opportunity to supply animal and fish feed.

Animal and fish feed as oppose to biodiesel feed (stock) is being tested for different parameters since the target is totally different. This is what you call the difference between technical oil and consumption oil.

Although most parameters are the same like FFA, Acid value, M&I, Ash, Iodine… there are some who are different like protein, EPA+DHA, the lack of sulfur in feed and more.

We at InLightMe can offer you a verity of products as follow:

1. PFAD
2. Fish oil from a verity of fish (sardine, salmon, tuna, pugnacious, anchovy and more)
3. Fish meal from the same verity
4. Chicken technical fat (3 grades)
5. Poultry meal , blood meal, feather meal
6. Veg-based meals (Soy, Rape…)

Vegetable oils for human consumption

We at InLightMe as part of our vast network of buyers and sellers came across an opportunity to supply vegetable oil for human consumption.

Usually we look for the byproducts of vegetable oil refining and degumming like distillate fatty acids, lecithin, acid oil… so once we have links to those refineries, oil mills and crushing factories we have links to their end product which is the oil itself.

Basically we can source for any oil with any certificate needed like: Non-GMO, Kosher, Halal and more.

Our most common oils are (both crude and refined):

1. Sunflower
2. Soy
3. Canola (rapeseed)
4. Palm
5. olive

We can also source other oils like: cotton, grape seeds, peanuts, coconut and more.

Other products

We at InLightMe have other products which belongs to no category but we have demands for those products as part of our work in the oil market so we established some connections to those sellers and buyers in a way I can offer them to any new client that require them.

Generally speaking, those products belong to the cosmetics and food industry.

1. Distillate sunflower/soy/rape/olive fatty acids
2. Soy/sunflower lecithin
3. Other personal care, health, pharmaceutical oils.

nButanol – renewable chemical and petroleum

This chemical is the main outcome of bio-ethanol processing.
The 2 main application of it are:

1. Chemical industry (food, feed, polymer, pharma, personal care…)
2. Petroleum product – can be used as fuel for auto, jet, marine and more.

For the time being I cannot provide more details regarding this new project since it's technologies are patent-protected and this is not the place to reveal the huge advantages we have over our competitors.

One we can reveal is the use of it as a "straight fuel" that can be inserted into automobiles without any need to convert, modified the engine, add a catalysis or anything else… just put and drive like gasoline but much more environmental friendly.

What our project provides is the opportunity for each ethanol plant in the world to expand his product verity and by that increase his exposure and income eventually by offering a brand new innovated product that can match a vast verity of targets.

We also provide the opportunity for companies to have their own renewable petroleum product not depending on crude oil, APAC or any other huge market player.

nButanol has nothing to do with crude oil prices… he only has to compete it but he does not rely on it like all other petroleum distillates, by products, chemicals…. Their price is based only on the crude oil price index.

Our project in running in two plants in India and we always look to expand…

WTE – waste to energy

Saying we are involved into WTE is like saying we are involve in selling stars…
means, there are so many to do we don't know where to start pointing you what we can do with your waste, any kind of waste… waste you never thought is a waste.

Basically we can use any hydro-carbon waste to a number of renewable products, again depending on the feedstocks.

For example:

We can take all type of municipal waste and turn it into SynGas to either use in heating systems for cold countries or to produce electricity.

We can take poultry manure and turn it into Bio char and Bio fertilizers which are by far better than any chemical fertilizer.

We can take fish waste and turn it into fish oil and fish meal for fish / animal feed

We can take food waste and turn it into dry pet food

We can take 10 pages and write down what can be done… so I believe you give us your waste and we will tell you how much money you can either save or make.

What we looking for…

We at InLightMe have a constant need for new products from our old suppliers and new suppliers for our old products.

Generally speaking I can say we look for new suppliers for all the products I have listed here because you never know which supplier will fall, bankrupt, disappear or god forbids die.

Our main interest is in the following:

1. Used Cooking Oil (UCO)
2. Animal fat (Tallow Cat. 1 and 3)
3. Distillate veg oil fatty acids
4. 2nd Generation biodiesel feedstocks
5. Veg based animal food (Soy, Rapeseed…)
6. Veg Acid oils and FFAs
7. Waste products for biodiesel production

Final words...

Hope this (not so short) brief was sufficient and efficient enough to show my capabilities and InLight some new ideas, opportunities and potential for further cooperation between us.

Either it will be as an affiliate or a consultant or any other way you see fit for me to serve your goals, please feel free to offer. I'm open to any idea that comes in mind.

Contact details:

Phone: +972-506-225227 (WhatsApp & Viber)

Skype: inligthme

Office / Fax: +972-8-9107712

Business email: Yariv.s@inlightmenergy.com

Personal email: switchyariv@gmail.com

Best regards,

Yariv Shabtay,

InLightMe – Trading Company.

Israel.