



## Green Biotrade Project in Queensland Australia

### Money Grows On Trees Here

#### The Location

Australia is the perfect location in which to grow and sell cash crops and, compared to Asia the country has a very low risk of political instability. It was ranked second in the world for political stability in the IMD World Competitiveness Yearbook 2009 and ninth for transparency of government policy amongst the 57 economies surveyed.

The plantations will be located in the Tablelands of North Queensland under 2 hours from the coast of Cairns and the international airport. The Tablelands, also known as the Cairn Highlands, is a plateau inland from Cairns that forms part of Australia's Great Dividing Range. This is a beautiful area rich in diversity consisting of spectacular rainforest national parks, lakes and villages.

Most of the Tableland area is farming land, due to the rich soil that abounds this region because of its volcanic history. The area is over 800 meters above sea level substantially reducing the risk of floods. The altitude and mountains between the coast and the plantation also mean that cyclone effects are not a point of concern due to the strategic position.

Tablelands offer guaranteed water supply which can be purchased as a license from the local authorities. TINAROO Falls Dam was constructed in 1958 on Barron River. It holds 436500 mega litres of water, has an average depth of 13 meters and has a surface area of 3360 hectares. The Dam supplies water for irrigation to over 800 farmers in the area.

#### Guaranteed water supply

**Farmers in the Tablelands have access to guaranteed water supply provided by the Tinaroo Falls Dam. A water license is purchased from the local authorities giving farmers' ongoing water access for irrigation purposes.**



#### The Project

The Green Biotrade Project (GBTP) produces Bio-Oil, Bio-Animal Feed, Bio-Fertilizer, Bio-Honey & Bio-Herbicide referred to as Bio products and by-products that can be sold to the local market.



Due to the mix of produce it complements to food security & the risks are distributed. It also grows on 'marginal land' (Land currently not under cultivation and therefore candidate land for biofuel feedstock's, maybe so because it is often regarded as a low agriculturally productive land or so called 'marginal land'. This may be due to poor -quality soils e. g. salinity, acidity, nutrient deficiencies and/or low and unreliable supplies of water) which means no competition to food crops.



### What Is Biotrade?

Biotrade is the buying and selling (trading) of products and by-products of biological origin. Here it is the trading of Bio-Oil, Bio-Animal Feed, Bio-Fertilizer, Bio-Honey and Bio-Herbicide.

To learn more about International & Local Biotrade visit [www.bioenergytrade.org](http://www.bioenergytrade.org)

## Projected Biotrade Profits

Number of Trees	Land Area in Hectares	Buying Price Per Tree in A\$	Selling Price Per Tree in Year 5A\$	Profit Per Tree In Year 5 A\$	Total Profit In Year 5 A\$
1852	One	33.25	59.80	26.55	49,170.60

A\$ = Australian Dollars

You could buy and sell multiple plots of trees.

For your protection the land where the trees are grown will be registered in your name as a lease. There is a one off fee of A\$ 890.00 to register this land lease.

## The *Milletia pinnata* Tree



*Milletia pinnata* is a species of tree in a pea family (legume tree) Fabaceae that grows to about 15 to 25 meters (15 to 80 ft). The trees live for up to 100 years or more with a productive life span of 65 to 70 years. And native to tropical and temperature Asia including parts of India, China, Japan, Malaysia, North Eastern Australia and in some Pacific Islands. It is often known as *Pongamia pinnata* as it was moved to the genus *Milletia* only recently.

It has been propagated and distributed further around the world in humid and subtropical environments from sea – level to 1200 m, although in the Himalayan foothills it is not found above 600m. It is capable of withstanding temperatures slightly below 0° C (32° F) and up to about 50° C (120° F) and annual rainfall of

500 to 2,5000 mm ( 20 – 100 in ), the tree grows wild on sandy and rocky soils including oolitic limestone ( The spherical sand size particles of calcium carbonate that form in shallow marine environments. Ooliths form as concentric rings of calcium carbonate precipitated around a small solid particle) and will grow in most soil types, even with its roots in salt water. The tree is well suited to intense heat and sunlight and its dense network of lateral roots and its thick, long tap root make it drought – tolerant. The dense shade it provides slows the evaporation of surface water and its roots nodules promote nitrogen fixation, a symbiotic (A general term describing the situation in which dissimilar organisms live together in close association) process by which gaseous nitrogen (N<sub>2</sub>) from the air is converted into ammonium (NH<sub>4</sub><sup>+</sup>, a form of nitrogen available to the plant).



## Uses of *Milletia pinnata*

Wood has been used for stove top fuels, poles and ornamental carving

Bark has been used for paper pulp, twine, and as a medium to reduce swelling of the spleen.

Flowers are considered good sources of pollen for honey bees, and have been described as having anti-diabetic properties

Leaves have been used as cattle fodder, as an infusion to relieve rheumatism and coughing, as an extract to treat itches and herpes and as a source of poison used by Australian Aborigines for fish spears

Oil extracted from the seeds has been used as lipids (oils, fats, steroids and related compounds) for commercial processes, as an ointment for skin diseases, as a liver medicine, as a lamp fuel oil in India, and for production of [biodiesel](#)

Seed cake left over after oil extraction has been used as 'green manure' as it is rich in protein and nitrogen

### BIODIESEL

As *Milletia pinnata* has a high oil content (approx. 40%) and can grow on malnourished soils with low levels of nitrogen and high levels of salt (food crops will not grow under these conditions & does not compete with food security) it is fast becoming the focus of a number of biodiesel research programs. Some advantages of *Milletia pinnata* are: a higher recovery and quality of oil than other crops, no direct competition with food crops as it is a non-edible source of fuel, and no direct competition with existing farmland as it can be grown on degraded and marginal land. As a legume it is also able to fix its own nitrogen from the soil, minimizing the need for added fertilizers. Whilst there are marked advantages in the use of *Milletia pinnata* for biodiesel, many considerations are needed in addressing the world's complex energy situation. The ARC Centre of Excellence for Integrative Legume Research ([www.cilr.uq.edu](http://www.cilr.uq.edu)) (is a partnership of The University of Queensland, The University of Newcastle, The Australian National University and the University of Melbourne) is currently investigation the potential of *Milletia pinnata* as one avenue for sustainable fuel production.

- Australia's senate recently passed a renewable energy target bill. This means that 20% of electricity production aims to come from renewables by 2020.

## About Our Partners

Our partners are based in Australia & the U.K. With 30 years of experience of agricultural expertise in developing successful commercial plantations.

The significant benefits from their commercial experiences in Land development, Property development, Marketing, Horticulture, Agriculture, Agronomy, Bio-Trade plantation establishment.

## Millettia pinnata The Income Generating Crop

Go Green LLC & partners can generate an income from the management and production of your Millettia pinnata trees in Queensland – Australia

### Unique Features Of Our Intensive Millettia pinnata plantations:

- High density planting
- High yielding genetics
- High level of soil nutrition to encourage higher oil content of the seed
- Secure and superior irrigation utilising channel water from the nearby dam which never runs out ( not relying on natures unreliable rainfall)
- High pollination rate achieved with additional bee colonies introduced
- Superior pruning techniques to induce more flowering and subsequently more seed
- Superior mechanical harvesting techniques utilised
- Seed processed within 12 hours of harvesting to achieve higher oil recovery
- Superior processing equipment used to achieve highest extraction rate.

The plantation will produce 3 crops per year.

### Risks

Any plantation damages will be covered by an annual comprehensive insurance & the environmental risks will be minimized as under Location.

### Sources of information

From our partners & CILR Australia [www.cilr.uq.edu](http://www.cilr.uq.edu)

### Disclaimer

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