

GREEN COAL



BAMBOO
as an
Energy Crop

BAMBOO **as an Energy** **Crop**



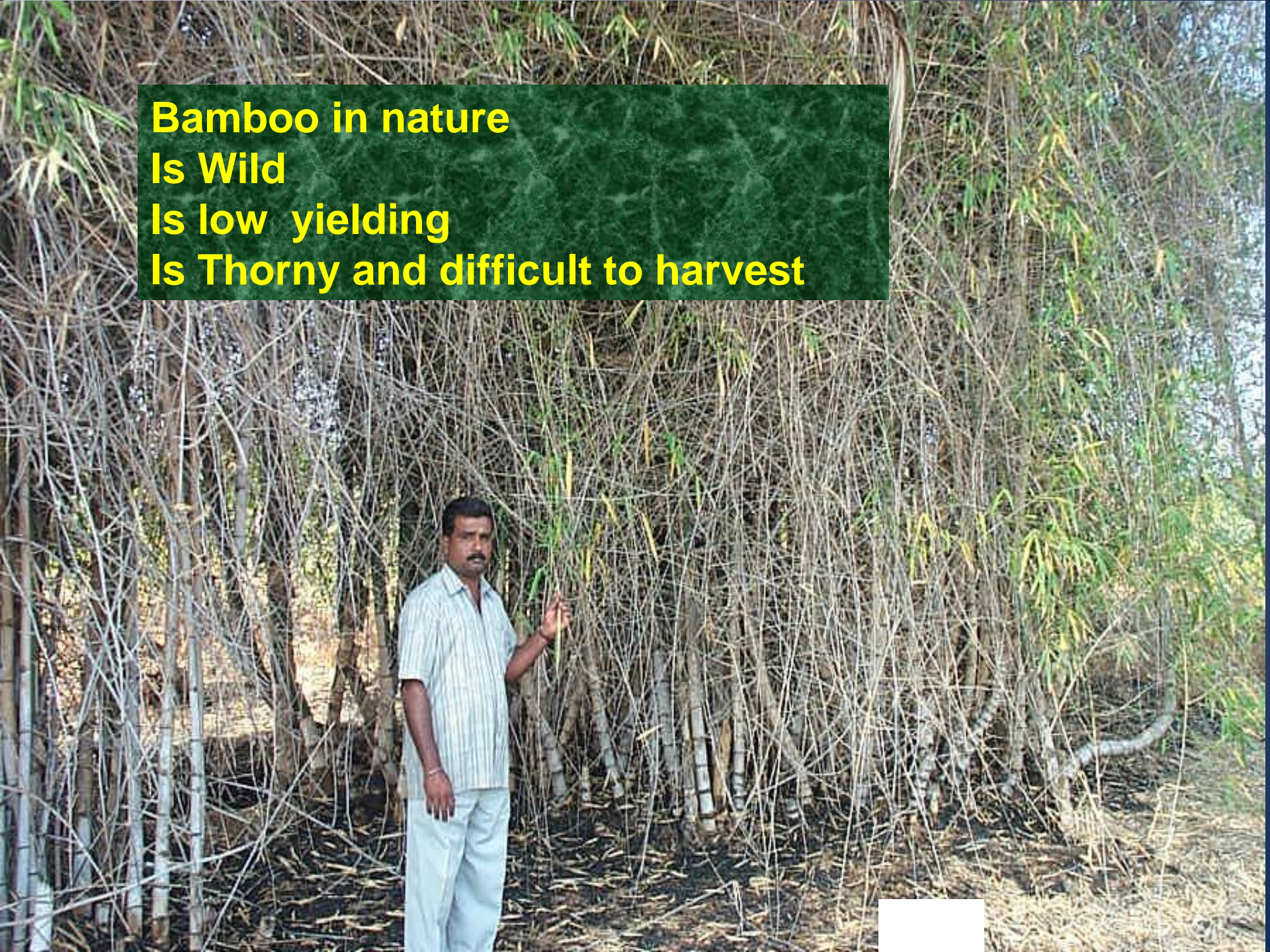
GLOBAL AGRITECH COLLABORATIONS

(A Division of Global Collaborations)



82 Avenue B, Suite 2, Haledon, NJ-07508, USA Ph: 212-655-5432

**Bamboo in nature
Is Wild
Is low yielding
Is Thorny and difficult to harvest**



SUPER Bamboo is cultivable

SUPER Bamboo yields over 20 times higher than in nature

SUPER bamboo is harvested every year

SUPER bamboo is thornless

SUPER bamboo is non-flowering and no more replanting

for over centuries

BAMBOO PLANTATION

- 2 YEARS





800 no x 25kg=20,000 Kg

20 Tons / clump or plant

**Super Bamboo Plant found in
nature yields as much as
bamboo from one acre**

SUPER BAMBOO

SUPER Bamboo is one of the cultivated bamboo with very high thick wall, highly Suitable for biomass plantation for intensive cultivation

SUPER BAMBOO



SUPER BAMBOO



SUPER BAMBOO IS A LONG AND THICK BAMBOO, WEIGHS 3 TIMES A NORMAL BAMBOO

SUPER BAMBOO



20 new bamboo poles /year

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Handwritten text on a signpost, partially obscured and difficult to read.



**BAMBOO CULTIVATION MODEL
1000**

8 POLES/PLANT

1000 PLANTS / AC

7 KG / POLE

Biomass Yield

= 56 tons/ Ac/year





**Calorific value of bamboo
is 4000 kcal/kg**

Burning of bamboo for electricity



1 MW power plant needs 160 / 200 Acres of Bamboo

The potential for *BAMBOO as a biomass crop was first* recognized in 2003

Interest in the crop has grown and research has led to the development of **SUPER Bamboo variety, viable systems for growing, harvesting and utilising the crop for Energy Production.**

Hi-Tech Bamboo Plantation of 7 Acres under drip and fertigation in Sodic soil

Example stated is of
Villupuram Dist., Tamil Nadu

To learn more about such unique developments that you can do in agricultural fields, especially in Bamboo Plantation or Jetropha Plantations etc.

Please contact us with description of your soil conditions and locations, with your budget and agricultural background details of person who would be interacting in this regard

OUR TEAM IS HEADED & GUIDED BY

Dr. N. Barathi

**World renowned, Pioneer Agricultural Scientist
Specializing in Plant Tissue Culture & Cloner
of BEEMA BAMBOO, world fastest growing Bamboo
yJ**



Following slides are picture depiction of how the barren land were converted to getting high value Bamboo and how ultimately Bamboo plantation was turned in to Bamboo energy products, entire operation conceived, planned and supervised by Dr. Barathi and his two assistants from time to time and we all can the fantastic results here.



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Fertigation tank



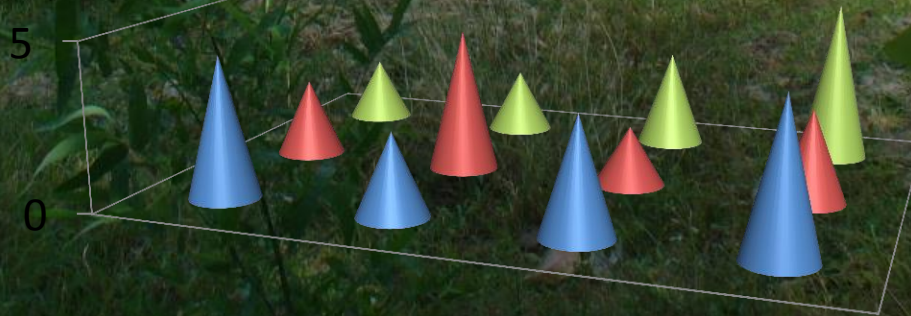
2 months old bamboo makes the Land Owner wonder as to why he remained silent for such Long a period, he sees bright future for his family and ready to move ahead in life.



From Barren Lands to Agri-tech
Marvel reality after 2 months

5 months old bamboo

We don't need to show the developmental graphs here, they speak for itself , see what they have turned up to, by Mother Nature



10 months old bamboo



**12 months old bamboo and now see the smile on
The Landowners face now, concept to Reality, Yes.**

**This could be possible for your country
also, if you intent to move ahead:**

Please contact Dr. Victor or Kam Patel or Ramesh Trivedi
On technology@globalenergycollaborations.com
c.c. to: sales@globalenergycollaborations.com



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The Scope does not stops here see further

**This was the barren land ONE YEAR before
the BAMBOO Plantation was established**



THIS IS HOW IT LOOKS NOW!



ONE YEAR OLD BAMBOO FIELD





**USE OF SUPER BAMBU
POWER PLANTS**







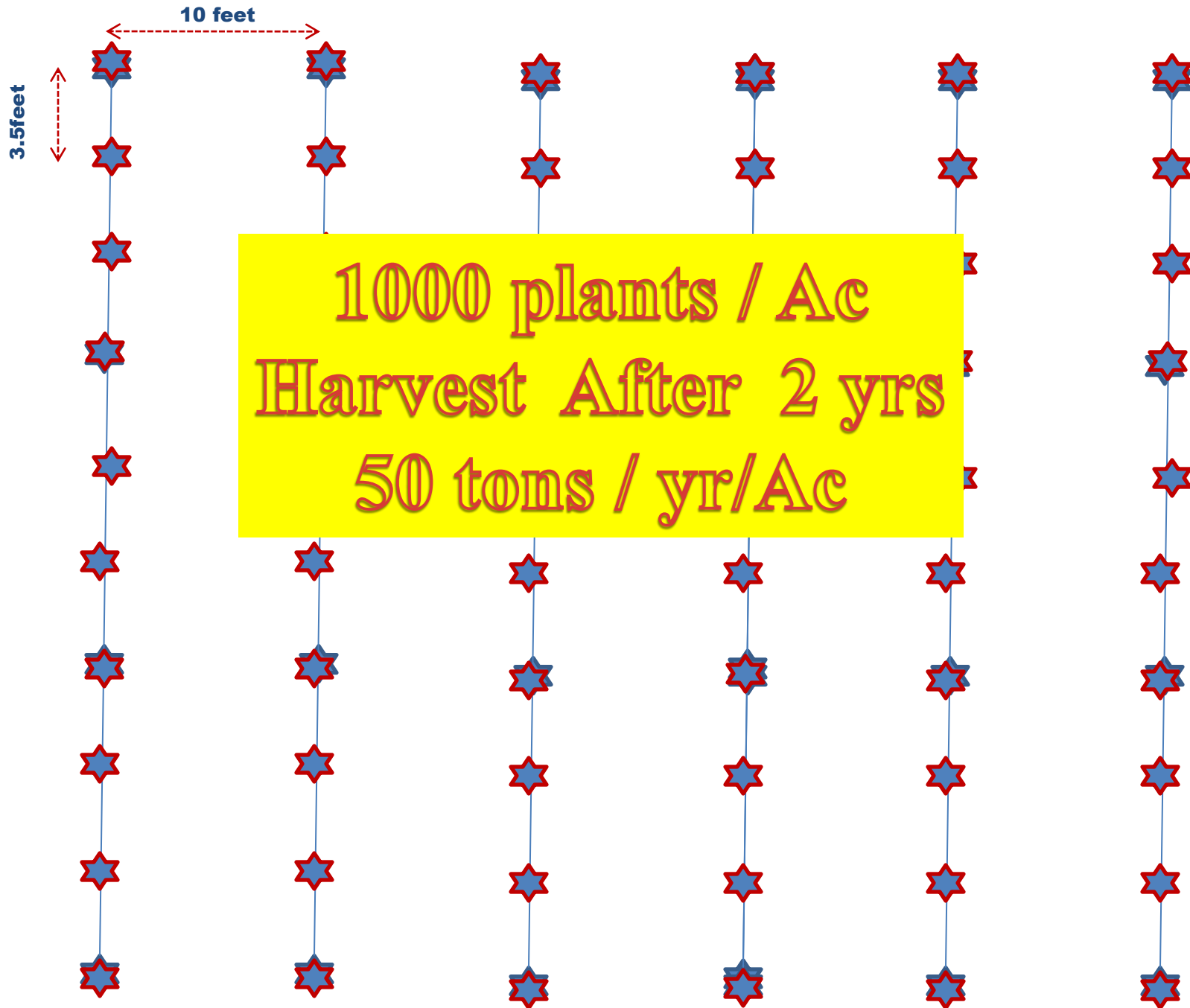









**Bamboo for best Agro-forestry and
highest Carbon Sequestration**



10 feet

3.5 feet

1000 plants / Ac
Harvest After 2 yrs
50 tons / yr/Ac



Possibilities are immense and your regular or waste lands be converted into magical income if rightly planned and implemented.

Millions of Acres are lying unutilized, contact us for needs of turning
Wastelands to MONEY LANDS

Contact : Kam Patel on

Director@globalagritechcollaborations.com

or on :

technology@globalenergycollaborations.com

BAMBOO TISSUE CULTURE



1,00,000 plants / day





90 days old in polybag

Best Quality
Tissue Culture Bamboo
For Field Plantation



BAMBOO ENERGY PLANTATION

A dedicated woody
biomass crops

HOW BAMBOO Become a Energy Crop

- **Biotechnology played an important role in crop development and improvement of bamboo**
- **High biomass yielding bamboo clones developed according to the soil and climate**
- **Precision farming methods developed for maximizing the biomass yield**

1.	Yeild : 1.5 – 2 tonnes /acre	40 tonnes/acre during 2 st year Between 50-60 tonnes in 3 rd year onwards
2.	Average life of 15-20 years	More than 100 years
3	7 -8 years to attain a diameter of 2 inches	2 years for dia of 2 inches 3 years for dia of 3 inches 4 years for dia of 4 inches
4.	It is a flowering variety and full of thorns	It is non-flowering and without thorns
5.	Stalks are thin and Cell wall thickness is less	Stalks are thick with thick cell walls
6	Fiber content is low	Fiber content is very high
7	Growth is normal during the entire year	Growth is very aggressive during monsoon and can touch upto 1 ft. to 1.5 ft per day
8	Clusters are small with few plants	Can grow in thick clusters of almost 800 plants with a total tonnage of 20 tonnes (under ideal conditions)
9	Max height less than 40 feet	It can reach heights up to 65 feet

THANK YOU!

Contact Kam Patel on
Director@globalagritechcollaborations.com
or on :
sales@globalenerycollaborations.com

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Our planet has lots of unutilized lands, let's AGRITECH them.
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