

CREATING WEALTH FROM WASTE

The paper was presented by Tan Sri Dato' Soong Siew Hoong during the Malaysia-Myanmar Innovative Products and Services Expo Investment Seminar and Business Matching Talks on Innovative SMEs on September 2011 at Yangon, Myanmar

Products from Biomass

Fuel pellets

- a) From dry saw dust or rice husk - These can be easily converted into fuel pellets (each about 6 mm diameter and 2 cm long) by a simple pelletizing machine (500 kg per hour capacity at about USD20,000 to USD30,000).

Overseas market for fuel pellets is about USD80 per tonne in 1 tonne bags FOB.

- b) Similar fuel pellets or briquettes (from 6 mm diameter to 100 mm diameter) can also be made from rice stalks, sugar cane stalks, oil palm empty fruit bunches or tree trunks, etc. (But these biomass need to first go through a pulverizing machine, then kiln dried before pelletizing).



GGs Bio-Pellet



GGs Bio-Briquette



Palm Briquette



Machinery and overseas market available.



Fibre for seat cushions and mattresses

- c) Fibre from coconut husks and long fibre from oil palm empty fruit bunches (EFB) / can be machine extracted, kiln dried and baled (each about 100 kg weight).

Palm Long Fiber

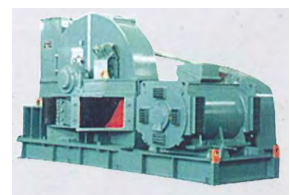


Packing : 140 kg per Bale
Weight : 20-21 ton per 40HQ
Moisture Content : Less than 15%
Length : 5-15 cm
Oil Content : Less than 1%

Machineries and export market available.



滚筒式烘干机 Drum-type drier



Bx1216型削片机
Bx1216 type chipper

Coconut Shells and Palm Kernel Shells

These can be crushed, dried, and made into activated carbon used for de-odourizing food products.

Durian (Thorny Fruits) Husks

Can be cleaned, dried, ground into powder, mix with some chemicals for cleaning up oil spills.

Wood Chips

Made from tree branches, sawn off pieces of wood, pulverized and then mix with plastic additive to make plastic composite chipboards

for furniture and building materials which are in great demand worldwide.

Waste paper, plastic, timber, metal, rubber, and many other examples can be recycled and made into all kinds of new products.

As for the other items, technology, machinery and market are available locally and overseas.

All these business opportunities are just waiting for the innovative entrepreneurs.

RESOURCES ARE LIMITED BUT CREATIVITY IS UNLIMITED

~ Slogan for POSCO: 4th largest steel manufacturer

THE REAL ENTREPRENEUR IS ONE WHO SEES OPPORTUNITIES WHILE OTHERS ONLY SEE PROBLEMS 🍀