

Biomass/Biosolid Microwave Carbonizer (BMWC) to Produce Biochar

- Biomass Microwave Carbonizer (BMWC) offers clean technology which applies microwave-assisted pyrolysis to burn biomass wastes into biochar using efficient and rapid process 50% faster than conventional pyrolysis and environmentally friendly approach. Biomass carbonization using conventional method creates air pollution issues.
- The biochar produced, is a charcoal-like material giving less smoke, high calorific value, lower volatile content, high fixed carbon content and high surface area. It is a sustainable solid fuel, giving lower emission which is suitable for high energy demand sectors.
- Massive air pollution generated from burning of fossil fuels and coals become a serious global issue which is the primary contributor of respiratory ailments and deaths in coal-dependent countries such as China. By using biochar to supplement the coal for energy, we can help the nation to reduce the dependency of using unsustainable fuel while saving the environment and improve community's health.



ACHIEVEMENT

Total funds secured : RM25k



CURRENT STATUS

2015

- Business model was to be a system integrator (selling machine)
- Potential clients – Palm Oil Mills and Sewage Treatment Plants
- Completed test run on prototype machine (capacity to process biomass 10kg/hour or 80kg/day)
- Completed lab analysis on end product (biochar)

2016

- Pivoting to be a biochar producer (selling biochar as thermal coal)
- Potential clients – Power plants and Coal traders
- Actively searching for funding to build a pre-commercial biochar producing system (capacity to process biomass 8 tonnes/day)

Prof. Dr. Azni Idris
Director



Dr. Mohamad Amran Salleh
Director



Atiyyah Ameenah
Team Coordinator



Mohammad Zaim
Financial Advisor



Zarizi Awang
Engineering Advisor



Aziah Rose
Environmental Advisor



+6014.8451.123

atiyyah@pakar.com.my