

## Biomass Microwave Carbonizer (BMC)



BMC offers innovative clean technology using microwave energy to burn biomass into biochar with at least 50% faster burning than the conventional pyrolysis, saves 63% energy consumption and emits 70% lesser CO<sub>2</sub> emission. The biochar produced is targeted to energy sector as a green alternative of solid fuel since it gives 9% more efficient and 89.6% cleaner burning than the coal's medium-high grade. BMC will be introduced to oil palm mills as an innovative way of handling palm oil wastes rather than composting or incineration while improving returns from their current wastes' sales or exports.

### ACHIEVEMENT

**Total Fund Secured RM1,178,800**

- PPRN Ministry of Higher Education Malaysia
- PlatCOM Ventures AIM
- Geran Pembangunan Inovasi (UPM)

### CURRENT STATUS

Pilot plant with biochar capacity production of 8 tonnes/day.

### Award

1. Semifinalist Global Cleantech Innovation Programme 2015 and 2016 by UNIDO & MIGHT
2. Finalist Tech Planter 2018 by Leave a Nest
3. 4 Star SME score 2017 by SME Corp Malaysia
4. Impact Driven Enterprise Accreditation 2017 by MaGic
5. Gold award in Renewable Energy & Environment Category at ITEX 2018
6. Best Innovation in Sustainability at Europa Awards for Sustainability 2018 by EUMCCI

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