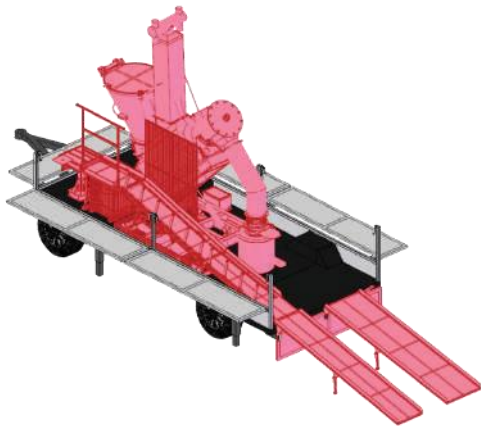


Takavator 1000 – an innovative, small-scale, cost-effective, and portable solution that dramatically increases the utilization of crop/forestry residues as carbon-negative bioproducts.



ABOUT TAKAVATOR

Takavator 1000 enables the efficient densification and upgrading of small pockets of residues into high-quality, carbon-rich materials such as biochar, solid fuels, and activated carbon. These materials have various applications, including soil amendment and solid fuel production. What sets Takavator apart is its ability to carry out this process without the need for continuous external energy input and it can be easily attached to tractors or shipping containers. The system offers a sustainable and self-sufficient approach to transforming agricultural residues into valuable resources.



- Has the capability to process valuable waste at the source of waste generation
- The non-portable version is suitable to place where most of the accumulation of biomass happens in the community. This version can be shipped in a container to any place
- Has a unique recipe of treatment of wastage where it reduces 95% of smoke emissions as compared to open burning of crop and forest residues.

Can process a vast variety of crop and forest residues like:



Rice Straw



Rice Husk



Coconut Shell



Walnut Shell



Wood Chips



Pine needle



Mustard stalk

FEATURES OF TAKAVATOR



Runs on solar or household grid line electrical source and consumes 5 HP/ 240 Volts



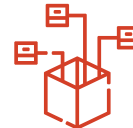
Continuous process - Takavator 1000 can process up to 1 metric ton/hr input. They can be operated for long hours to increase thermal efficiency



Processing parameters can be controlled based on application requirements. Output yield of bio-product/Biochar ranges between 25-40%



IoT-based dMRV solution and control system that measures, records and manages key operational parameters



Can be commissioned within 1-2 working days. Deployment within 3 months post order



Portable version requires 6 x 3 mts while non-portable version needs 4 x 3 meters space



Access to markets for carbon removal credits and bio-products



In-site deployment leads to significant savings in costs and emissions associated with the movement of raw biomass



Value addition from waste heat



After-sales service & support provided in geographies currently served

A wide variety of industries

CROP AND FOREST RESIDUES



Activated carbon



Solid fuels



Carbon negative fertilizers



Others specialty carbon-based chemicals

OUR TEAM



Kevin Kung

Co-founder & CTO
Doctorate in Biofuels and Renewable Energy, MIT



Vidyut Mohan

Co-founder & CEO
Master's degree in Sustainable Energy Technology Technical University of Delft

Advisory Board

Dr. John Wall
former CTO, Cummins

Jennifer Wagner
Breakthrough Energy Fellow

Michael Pambianchi
Breakthrough Energy Fellow

Hiran Vedam
Breakthrough Energy Fellow

Paul Needham
CEO, Arca

CONTACT INFORMATION

Vidyut Mohan

Email: vidyut.mohan@takachar.com

Website: www.takachar.com/



© TAKACHAR 2023