

THE RUNNER-UP

Cleantech Global Forum 2018

The Winner

GEF UNIDO Cleantech Programme for SMEs in Thailand 2016

TOM-CASAVA:
The Conversion of Problematic and Valueless
Cassava Stumps into High Price and High Value
Activated Carbon



Thailand



NSTDA



WHY CASSAVA STUMP?



TROUBLE



ISSUES



LONG-TERM



Activated Charcoal From Cassava Stump's Product



- Veg./Fruits Washing Pack
- AC soup
- cat sand
- Industrial Air Filter



Markets & Customers

MARKETS:

- The beachhead segment is **industrial air/pollution filter** which have shown the most prominent effectiveness. **Household cat sand and vegetable/fruit washing pack** which also have shown very well effectiveness is the second beachhead segment.

CUSTOMERS:

- **Domestic companies** in Thailand that use AC for air pollution filter industry such as SCG, PTT, etc. For washing pack using in restaurants, hotels, and hospitals.
- **Global companies** use AC for air pollution filter industry including SUEZ France, Korea, China.

Social & Economic Impact

- Selling of cassava stumps at 1,000 Baht/MT.
Average Income Increased 230 USD/year

	2018	2019	2020
Beneficial Farmers (families)	1,518	2,215	3,016

Environment Impact

- Eliminate the wild field cassava stump burning and **reduce the CO₂ emission.**
- Air pollution **reduction/Improvement of air quality** and the people's health.

	2018	2019	2020
Cassava stump utilized (MT)	10,627	15,757	21,113
T.CO₂ Emission Reduction	21,254	31,516	42,227

WHEN I STRONG...

HUMAN BEING & SOCIETY WILL BE MORE STRONGER.



Milestones & Achievements

MILESTONES:

- Focus on export AC using in ***air pollution filter in factories industry esp. Waste and chemical industry*** and export to international market in Europe and USA.
- Household vegetable/fruit washing pack which also export in many countries including Europe and USA.

ACHIEVEMENTS:

- R&D With Department of Nutrition Faculty of Public Health, Mahidol University
- Certified for ***10 POISONOUS substances free*** by the Standard Laboratory

Next Steps

“Environmental problems are a global issue that every human being is responsible for”

Thus, everyone have to share the work in order to protect THE EARTH.

- We would like to find **GRANTS FUND** for R&D, Product development and scale up business.

“Environmental problems are a global issue that every human being is responsible for”



TOM CASAVA
tgcooperate@gmail.com
www.tomcasava.co