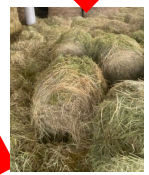
Feasibility Study Project to Replace Coal Fuel with Biomass Solid Fuel Made from Agricultural Waste in Vietnam

Haze/PM

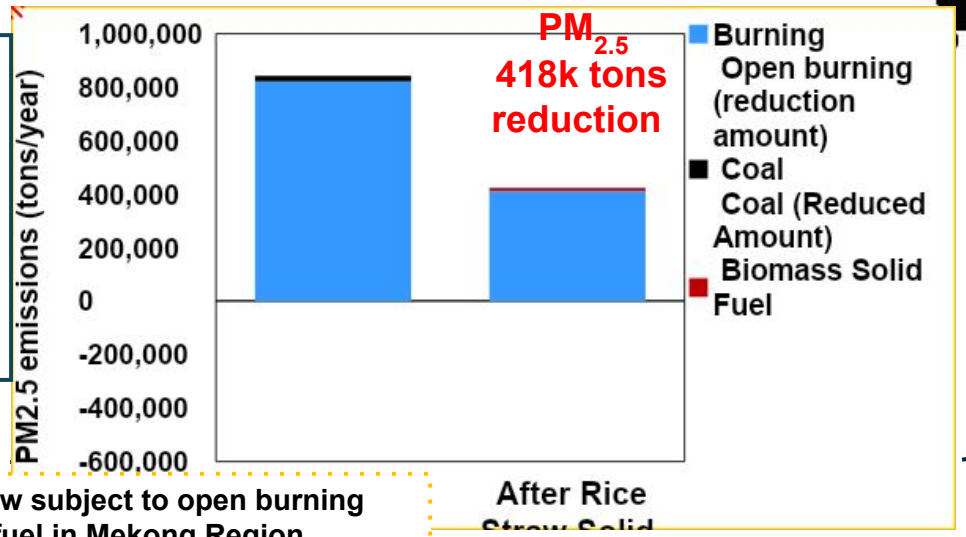
Grindmill



Bio-solid fuel

Market Mechanism

Coal



Contact
- Dr. Yamashita, Ken; ACAP; kyamashita@acap.asia
- Dr. Hai, MAE Vietnam tmhaiagu@gmail.com
+84 986 118 118

Conversion of 50% of rice straw subject to open burning converted into biomass solid fuel in Mekong Region

[Conclusion] Difficult to justify economically

Calorific Value Unit Price: Rice Straw 430 VND/1,000kcal vs Coal 300 VND/1,000kcal

[Key Discovery] Identified a model that is economically viable without JCM support

Model ①: Rice Husk Substitution (Demand Side)

Annual Fuel Cost Savings: +242 million VND/year

Model ②: Farmer Community Operation (Supply Side)

Annual Revenue: +111 million VND/year
Payback period: 4.2 years

[Suggestion] Demonstration Project

- Introduce several grinding mills and conduct on-site demonstration activities
- Collaboration with other programs: 1M hecta low emission rice
- Capacity building and technical assistance
- Review the demonstration activities and considering next steps